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Journal of Non-Crystalline Solids, Author index Vols. 131–140 (1991–1992) 1–42
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Author index to volumes 131–140

Aasland, S., T. Grande and S. Julsrud, Phase equilibria in the binary systems ZrF_4–LaF_3 and ZrF_4–AlF_3 140 (1992) 69
Aasland, S., see Grande 140 (1992) 73
Abbi, S.C., see Mavi 137&138 (1991) 1083
Abe, Y., see Hosono 139 (1992) 86
Abe, Y., see Hosono 139 (1992) 90
Abel, C.-D., see Schumm 137&138 (1991) 351
Abel, C.-D., see Mohring 137&138 (1991) 847
Abelson, J.R., see Feng 137&138 (1991) 331
Abelson, J.R., see Myers 137&138 (1991) 783
Acosta, J.L., see Linares 131–133 (1991) 1149
Adachi, K. and T. Kotaka, Dielectric normal-mode process of polyisoprene in blends and in networks 131–133 (1991) 723
Adam, J.L., see Fernández 131–133 (1991) 1230
Adam, J.L., F. Smektala and J. Lucas, Barium–indium–gallium-based fluoride glasses for active infrared optical fibers 140 (1992) 31
Adam, M., Viscoelastic properties of semi-dilute solutions 131–133 (1991) 773
Adams, K.M., see Anderson 131–133 (1991) 587
Adkins, C.J., see Bellingham 137&138 (1991) 519
Adler, J., see Khait 137&138 (1991) 145
Adriaenssens, G.J., see Nesladek 137&138 (1991) 443
Adriaenssens, G.J., see Herremans 137&138 (1991) 855
Aegerter, M.A., see Gonçalves 140 (1992) 52
Affatigato, M., see Koritala 134 (1991) 277
Afify, N., Kinetics study of non-isothermal crystallization in $Se_{0.7}Te_{0.3}$ chalcogenide glass 136 (1991) 67
Agarwal, G. and R.F. Speyer, Devitrification hardening of cupola slag glass with CaO 135 (1991) 95
Aggarwal, I.D., see Sanghera 140 (1992) 146
Aggarwal, I.D., see Freitas Jr 140 (1992) 166
Aiyah, V., see Polischuk 137&138 (1991) 943
Aiyah, V., see Kasap 137&138 (1991) 1329
Aiyah, V., A. Baillie, B. Polischuk, A. Bekirov and S.O. Kasap, X-ray sensitivity of halogenated a-Se:As photoreceptors for electroradiography 137&138 (1991) 1337
Akasaka, Y., T. Nanba, H. Inoue, T. Osuka and I. Yasui, Structural analysis of AlF_3–CaF_2–YF_3 glass by diffraction methods 140 (1992) 249
Akasaka, Y., see Nanba 140 (1992) 269
Akita, S., see Nakayama 137&138 (1991) 1279
Al-Alawi, B., see Hammam 137&138 (1991) 911
Al-Alawi, S.M., see Hammam 137&138 (1991) 911
Al-Dallal, S., see Hammam 137&138 (1991) 911
Alaoui, M., see Koulmann 135 (1991) 243
Alberdi, J.M., see Colmenero 131–133 (1991) 949
Albert, M., see Suchaneck 137&138 (1991) 701
Alegría, A., see Colmenero 131–133 (1991) 949
Alegría, A.A., L. Goitiandia, I. Tellería and J. Colmenero, Dielectric relaxation and physical aging in polar glassy polymers 131–133 (1991) 457
Alig, I., F. Stieber and S. Wartewig, Ultrasonic examination of the dynamic glass transition in amorphous polymers 131–133 (1991) 808
Aljishi, S., see Jin 137&138 (1991) 327
Aljishi, S., S. Jin and L. Ley, Defects and disorder broadened band tails in compensated hydrogenated amorphous silicon 137&138 (1991) 387
Aljishi, S., see Hammam 137&138 (1991) 911
Almeida, R.M., see Gonçalves 140 (1992) 52
Almeida, R.M., Short and intermediate range structures in fluoride glasses by vibrational spectroscopy 140 (1992) 92
Alvarez, F., see Koropecki 137&138 (1991) 835
Amatsu, M., see Naito 137&138 (1991) 271
Ambros, S., R. Carius and H. Wagner, Lifetime distribution in a-Si:H: geminate-, nongeminate- and Auger-processes 137&138 (1991) 555
Amelar, S., see Schrag 131–133 (1991) 537
Amelar, S., C.E. Eastman, T.P. Lodge and E.D. von Meerwall, How good is the bead-spring model? 131–133 (1991) 551
Amis, E.J., see Hodgson 131–133 (1991) 913
An, I., see Li 137&138 (1991) 787
Anagnostopoulou-Konsta, A., see Pissis 131–133 (1991) 1174
Anagnostopoulou-Konsta, A., D. Daoukaki-Diamanti, P. Pissis, G. Loukakis and E.G. Sideris, Dielectric study of DNA–water systems

by the thermally stimulated currents method 131–133 (1991) 1182
Anderson, G.B., see Tsai 137&138 (1991) 673
Anderson, J.E., K.M. Adams and P.R. Troyk, Electrical percolation phenomena in polymer–solvent systems 131–133 (1991) 587
Anderson, J.E., In Memoriam: Charles Phelps Smyth (1895–1990) 131–133 (1991) 1123
Andersson, O., see Forsman 131–133 (1991) 1145
Andrews, W., D. Coulson and G. Rosman, Fabrication of single mode ZBLAN optical fibres 140 (1992) 281
Andrianova, E., J. Gerditskaya, Y. Roizin and V. Sviridov, Amorphous hydrogenated silicon inhomogeneities as revealed by scanning with mercury and laser probes 137&138 (1991) 79
Andriesh, A., see Popescu 137&138 (1991) 973
Andújar, J.L., see Bertran 137&138 (1991) 895
Angell, C.A., Relaxation in liquids, polymers and plastic crystals – strong/fragile patterns and problems 131–133 (1991) 13
Angell, C.A., see Böhmer 131–133 (1991) 182
Angell, C.A., see McKenna 131–133 (1991) 528
Angell, C.A., A. Bunde, M. Ingram, H. Jain and W. Risen (moderator), Discussion session – Glassy ionics 131–133 (1991) 1113
Angell, C.A., see Boulard 140 (1992) 350
Anma, M., T. Yano, A. Yasumori, H. Kawazoe, M. Yamane, H. Yamanaka and M. Katada, Structure of glasses in the system Sn–Pb–P–F–O 135 (1991) 79
Antoniadis, H., R.I. Devlen, S. Esipov, S. Guha, E.A. Schiff and J. Tauc, High-field electron drift in a-Si:H 137&138 (1991) 407
Antoniadis, H. and E.A. Schiff, Unraveling the $\mu\tau$-mystery in a-Si:H 137&138 (1991) 435
Aoki, T., Y. Nishikawa, H. Ii and M. Hirose, Effects of atomic hydrogen injection on ECR plasma deposition of a-Ge:H 137&138 (1991) 749
Apekis, L., see Pissis 131–133 (1991) 95
Apekis, L., see Pissis 131–133 (1991) 1174
Arai, K., see Okushi 137&138 (1991) 175
Arai, K., see Toyoshima 137&138 (1991) 765
Arbusov, V.I., A.F. Zatsepin, V.S. Kortov, M.N. Tolstoi and V.V. Tyukov, Exoelectronic spectroscopy of intrinsic and extrinsic color centers in surface layers of alkali silicate glasses 134 (1991) 208
Ariyoshi, T., see Shirai 137&138 (1991) 693
Arkhipov, V.I., H. Bässler and A.I. Rudenko, Carrier transport in a hopping system with energetic disorder 137&138 (1991) 503
Arlauskas, K., see Juška 137&138 (1991) 411
Armand, P., A. Ibanez, H. Dexpert and E. Philippot, Short and medium range order in germanium sulfide glasses: a low temperature X-ray absorption spectroscopy study 139 (1992) 137
Armelao, L., P. Colombo, G. Granozzi and M. Guglielmi, SiO_2–TiO_2 sol–gel coatings: a surface study by X-ray photoelectron spectroscopy 139 (1992) 198
Arndt, J., R.A.B. Devine and A.G. Revesz, Anomalous behaviour of the refractive index during the annealing of densified, amorphous SiO_2 131–133 (1991) 1206
Arriandiaga, M.A., see Fernández 131–133 (1991) 1230
Arsenault, C.J., see Beaudoin 137&138 (1991) 1099
Arsenault, C.J., M. Meunier, M. Beaudoin and B. Movaghar, Electronic transport through a-Si:H/a-SiN_x:H single and double barrier structures 137&138 (1991) 1111
Arsova, D., see Ionov 137&138 (1991) 1151
Asal, R., see Bayliss 137&138 (1991) 899
Asal, R., S.C. Bayliss and E.A. Davis, Semiconductor-to-metal transitions induced by pressure in the amorphous alloy system a-$Si_{1-y}Ni_y$:H 137&138 (1991) 931
Asano, A., see Stutzmann 137&138 (1991) 231
Asano, A. and M. Stutzmann, Depth profiling of defects in a-Si:H by photothermal deflection spectroscopy 137&138 (1991) 623
Asokan, S., see Shimakawa 137&138 (1991) 915
Asokan, S., see Ramakrishna 139 (1992) 129
Assunção, M.C., Effect of halogen impurities on transport properties of selenium glasses 136 (1991) 81
Atkins, G.R., M.G. Sceats and S.B. Poole, Upconversion fibre lasers: comparison of theory and experiment 140 (1992) 123
Aust, K.T., see Koo 134 (1991) 226
Avendaño, J., F.L. Castillo Alvarado and R.A. Barrio, Application of nested CPA theory to hydrogenated amorphous silicon 137&138 (1991) 299
Awaki, N., see Kumeda 137&138 (1991) 887
Aziz, M.J., see Devaud 134 (1991) 129

Baba, N., see Nagano 135 (1991) 114
Babinets, Y., see Mitsa 137&138 (1991) 959
Badot, J.C., N. Baffier and A. Fourrier-Lamer, Dielectric relaxation study of $Na_{0.33}V_2O_5$ sol–gel bronze in a broad frequency range 10^6–10^{10} Hz 131–133 (1991) 1227
Baffier, N., see Badot 131–133 (1991) 1227
Baiker, A., see Walther 134 (1991) 47
Baillie, A., see Aiyah 137&138 (1991) 1337
Baker, S., see McKinnon 139 (1992) 157
Balda, R., see Fernández 131–133 (1991) 1230
Bansil, R., see Pajevic 131–133 (1991) 630
Baranov, A.M., see Sleptsov 136 (1991) 53
Baranovskii, S.D., R. Saleh, P. Thomas, H. Vaupel and H. Fritzsche, Influence of nonradiative and nongeminate processes on a lifetime distribution of photoexcited carriers in amorphous semiconductors at low temperatures 137&138 (1991) 567
Barbier, P.R. and G. Moddel, Transient recovery of a-Si:H p–i–n photodiodes 137&138 (1991) 1301
Barbón, P.G., see Blanco 136 (1991) 91
Barclay, R.P., see Kurnia 137&138 (1991) 375
Barclay, R.P. and J.M. Boud, Noise characterisation studies of amorphous semiconductors 137&138 (1991) 495
Bari, A., T. Das and R.N. Joarder, Effective pair potential and thermodynamics of liquid transition metals Fe, Co and Ni 136 (1991) 173
Baró, M.D., see Clavaguera-Mora 131–133 (1991) 479
Barrat, J.-L. and J.-N. Roux, Molecular dynamics simulations of supercooled liquids near the glass transition 131–133 (1991) 255
Barrio, R.A., see Avendaño 137&138 (1991) 299
Bartels, J., U. Lembke, R. Pascova, J. Schmelzer and I. Gutzow, Evolution of cluster size distribution in nucleation and growth processes 136 (1991) 181
Bartolotta, A., G. Di Marco and G. Carini, Influence of thermal history on molecular relaxations of salt-blended polyethylene oxide 131–133 (1991) 462
Basrour, S., see Favre 137&138 (1991) 335
Bässler, H., see Arkhipov 137&138 (1991) 503
Bates, J.B., J.C. Wang and Y.T. Chu, Interface and bulk relaxation in solid ionic conductors 131–133 (1991) 1046
Battezzati, L., F. Demichelis, C.F. Pirri, A. Tagliaferro and E. Tresso, Investigation on structural changes in amorphous tetrahedral alloys by means of differential scanning calorimetry 137&138 (1991) 87
Bauer, G.H., see Heintze 137&138 (1991) 49
Bauer, G.H., see Eberhardt 137&138 (1991) 187
Bauer, G.H., see Schubert 137&138 (1991) 195
Bauer, G.H., see Schumm 137&138 (1991) 315
Bauer, G.H., see Schumm 137&138 (1991) 351
Bauer, G.H., see Brüggemann 137&138 (1991) 359
Bauer, G.H., see Kessler 137&138 (1991) 745
Bauer, G.H., see Mohring 137&138 (1991) 847
Bauer, G.H., see Bernhard 137&138 (1991) 1103
Bauwens, J.-C., see Bauwens-Crowet 131–133 (1991) 505
Bauwens-Crowet, C. and J.-C. Bauwens, Rejuvenation and annealing effects on polycarbonate 131–133 (1991) 505
Bayliss, S.C., S.J. Gurman, R. Asal and D. Hall, Determination of the ordering in amorphous silicon alloys from Penn gap energies 137&138 (1991) 899
Bayliss, S.C., see Asal 137&138 (1991) 931
Bearzotti, A., see Pecora 137&138 (1991) 1253
Beaudoin, M., C.J. Arsenault and M. Meunier, On the blue-shift of the optical bandgap of a-Si:H/a-SiN_x:H multilayer structures 137&138 (1991) 1099
Beaudoin, M., see Arsenault 137&138 (1991) 1111
Beck, H., see Voirol 137&138 (1991) 423
Becker, F., see Carius 137&138 (1991) 595
Bedford, S., see Chen 139 (1992) 185
Beelen, T.P.M., see Wijnen 136 (1991) 119
Behm, R.J., see Hartmann 137&138 (1991) 1067
Bekirov, A., see Polischuk 137&138 (1991) 943
Bekirov, A., see Kasap 137&138 (1991) 1329
Bekirov, A., see Aiyah 137&138 (1991) 1337
Belford, R., see Hajto 137&138 (1991) 1039
Bellingham, J.R., M. Graham, C.J. Adkins and W.A. Phillips, Temperature dependence of the resistivity of amorphous indium oxide 137&138 (1991) 519
Bello, A., see Lorenzo 131–133 (1991) 584
Bello, A., see Pereña 131–133 (1991) 891
Belougne, P., see Bensimon 134 (1991) 239
Belyaev, A.D. and I.P. Zvyagin, The effect of the energy dependence of capture coefficients on recombination characteristics of amorphous semiconductors 137&138 (1991) 607
Benavente, R., see Lorenzo 131–133 (1991) 584
Bensimon, Y., P. Belougne, B. Deroide, B. Ducourant, J.C. Giuntini and J.V. Zanchetta, Influence of oxygen on electrical conductivity of amorphous molybdenum sulfides 134 (1991) 239
Berberian, J.G., Dielectric relaxation of 3-bromopentane in mixtures with 3-methylpentane 131–133 (1991) 48
Bergerová, J., see Červinka 137&138 (1991) 123

Berkin, J., see Brüggemann 137&138 (1991) 359
Berkin, J., see Main 137&138 (1991) 439
Bernards, T.N.M., M.J. van Bommel and A.H. Boonstra, Hydrolysis–condensation processes of the tetra-alkoxysilanes TPOS, TEOS and TMOS in some alcoholic solvents 134 (1991) 1
Bernas, H., see Roca i Cabarrocas 137&138 (1991) 1055
Bernhard, N., H. Dittrich and G.H. Bauer, The optical bandgap of multilayers of a-Si:H and alloys: a comparison of experiment and thin-film optics calculations 137&138 (1991) 1103
Bernholc, J., see Davidson 137&138 (1991) 307
Bero, C.A., see Plazek 131–133 (1991) 570
Berry, G.C., see Patterson 131–133 (1991) 799
Bertolini, D., see D'Arrigo 131–133 (1991) 58
Bertolini, D., M. Cassettari, G. Salvetti, E. Tombari and S. Veronesi, Dielectric relaxation of water–alcohol and alcohol–alcohol solutions 131–133 (1991) 1169
Bertoni, C.M., see Finocchi 137&138 (1991) 153
Bertran, E., J.M. López-Villegas, J.L. Andújar, J. Campmany, A. Canillas and J.R. Morante, Optical and electrical properties of a-Si_xN_y:H films prepared by rf plasma using N_2+SiH_4 gas mixtures 137&138 (1991) 895
Beserman, R., see Khait 137&138 (1991) 45
Beserman, R., see Mavi 137&138 (1991) 1083
Beyer, W., H.C. Weller and U. Zastrow, Hydrogen diffusion in the a-Si:Ge alloy system 137&138 (1991) 37
Beyer, W., see Khait 137&138 (1991) 45
Beyer, W., see Pierz 137&138 (1991) 107
Beyer, W., J. Herion and U. Zastrow, Lithium stability in hydrogenated amorphous silicon 137&138 (1991) 111
Beyer, W., see Siebke 137&138 (1991) 339
Beyer, W., see Horbach 137&138 (1991) 661
Beyer, W., see Suchaneck 137&138 (1991) 701
Beyer, W., see Edelman 137&138 (1991) 1063
Bezemer, J., see Zhu 137&138 (1991) 355
Bhattacharya, S., see Huang 131–133 (1991) 335
Bhide, V.G., see Dusane 137&138 (1991) 115
Bhusari, D.M., R.O. Dusane and S.T. Kshirsagar, Properties of a-$Si_{1-x}C_x$:H alloys as deposited in the hot-plasma-box glow discharge reactor 137&138 (1991) 689
Bianconi, M., F.J. Fonseca, C. Summonte and G. Fortunato, A study on excimer laser amorphous silicon film crystallization 137&138 (1991) 725
Bik, W.M.A., see van den Boogaard 137&138 (1991) 29
Biljaković, K., J.C. Lasjaunias and P. Monceau, Low-energy excitations and energy relaxations in CDW ground state at very low temperatures 131–133 (1991) 1254
Bindeman, R., see Vollmar 137&138 (1991) 587
Bindemann, R., see Gutschker 137&138 (1991) 579
Binder, K., Computer simulation of models for orientational glasses 131–133 (1991) 262
Binder, K., H.-P. Deutsch and A. Sariban, Monte Carlo studies of polymer interdiffusion and spinodal decomposition: a review 131–133 (1991) 635
Binder, K., see Paul 131–133 (1991) 650
Binder, K., T.P. Lodge, H. Sillescu, K. Schweizer and H. Yu (moderator), Discussion Session – Polymer diffusion, dynamics and viscoelasticity 131–133 (1991) 742
Birnbaum, G., see Montrose 131–133 (1991) 177
Biscarini, F., C. Chiccoli, P. Pasini and C. Zannoni, On a simple model of ferroelectricity in liquid crystals 131–133 (1991) 1190
Bischof, J., see Jacobsen 137&138 (1991) 989
Bitsis, M.S., see Chryssikos 131–133 (1991) 1068
Bjorkman, C.H., see Lee 137&138 (1991) 1059
Blanco, J.M., P.G. Barbón, A.R. Pierna and J. González, Compositional dependence of the stress plus field induced anisotropy in Co–Ni–Si–B and Co–Fe–Ni–Si–B amorphous alloy ribbons 136 (1991) 91
Blaudeck, P., see Rohwer 137&138 (1991) 843
Blayo, N. and B. Drevillon, In situ study of the hydrogen rich overlayer at the a-Si:H surface by infrared ellipsometry 137&138 (1991) 771
Blayo, N. and B. Drevillon, Infrared ellipsometry study of the vibrational properties of growing microcrystalline silicon thin films 137&138 (1991) 775
Blinc, R., see Pirc 131–133 (1991) 92
Blinc, R., J. Dolinšek and S. Žumer, Order parameter determination in proton and deuteron glasses via NMR and EPR: the fast and slow motion limits 131–133 (1991) 125
Blinov, L.N., see Koudelka 134 (1991) 86
Block, M., D. Bonnet and F. Zetzsche, Modeling of multilayer amorphous thin film Si_xGe_{1-x} single and tandem solar cells 137&138 (1991) 1197
Blümich, B., see Schaefer 131–133 (1991) 777
Bodart, J., see Norberg 137&138 (1991) 71
Boese, D., see Meier 131–133 (1991) 144
Boese, D., see Kremer 131–133 (1991) 728
Böhmer, R., H. Senapati and C.A.

Angell, Mechanical stress relaxation in inorganic glasses studied by a step-strain technique 131–133 (1991) 182
Böhmer, R., see Loidl 131–133 (1991) 269
Boiteux, G., G. Seytre, L. Cuve and J.-P. Pascault, Dielectric studies of segmented polyurethanes based on polyolefine: relations between structure and dielectric behaviour 131–133 (1991) 1131
Bollu, M., see Wang 137&138 (1991) 1143
Bolmont, D., see Koulmann 135 (1991) 243
Bonincontro, A., R. Caneva and F. Pedone, Dielectric relaxation at radiofrequencies of DNA–protamine systems 131–133 (1991) 1186
Bonnet, D., see Block 137&138 (1991) 1197
Boonstra, A.H., see Bernards 134 (1991) 1
Börjesson, L. and W.S. Howells, Incoherent quasi-elastic neutron scattering of propylene carbonate in the glass instability range 131–133 (1991) 53
Börjesson, L., see Jacobsson 131–133 (1991) 104
Börjesson, L., M. Elmroth and L.M. Torell, A Brillouin scattering study of an extremely 'fragile' molecular glass former 131–133 (1991) 139
Börjesson, L., see Niklasson 131–133 (1991) 1096
Börner, K., see Rössler 131–133 (1991) 99
Borsa, F., see Martin 131–133 (1991) 1041
Borsa, F., see Trunnell 139 (1992) 257
Borsali, R., L. Giebel, E.W. Fischer and G. Meier, Dynamic light scattering from ternary mixtures of two homopolymers in solution 131–133 (1991) 816
Borst, W., see Gangopadhyay 137&138 (1991) 539
Borst, W., see Gangopadhyay 137&138 (1991) 859
Bort, M., see Stachowitz 137&138 (1991) 551
Boscherini, F., see Meneghini 137&138 (1991) 75
Boud, J.M., see Kurnia 137&138 (1991) 375
Boud, J.M., see Barclay 137&138 (1991) 495
Bouizem, Y., see Meaudre 137&138 (1991) 171
Boulard, B., J. Kieffer, C.C. Phifer and C.A. Angell, Vibrational spectra in fluoride crystals and glasses at normal and high pressures by computer simulation 140 (1992) 350
Boulton, J.M., see Uhlmann 131–133 (1991) 1194
Brack, H.P., see Burns 131–133 (1991) 994
Branda, F., A. Marotta and A. Buri, Evaluation of glass stability from non-isothermal kinetic data 134 (1991) 123
Brandt, M.S., see Bustarret 137&138 (1991) 53
Brandt, M.S. and M. Stutzmann, Kinetics of light-induced defect creation in amorphous silicon: the constant degradation method 137&138 (1991) 211
Brandt, M.S., see Stutzmann 137&138 (1991) 231
Brantervik, K., see Niklasson 131–133 (1991) 1096
Brazhkin, V.V., R.N. Voloshin and S.V. Popova, The kinetics of the transition of the metastable phases of SiO_2, stishovite and coesite to the amorphous state 136 (1991) 241
Brener, R., see Edelman 137&138 (1991) 1063
Brenna, U., G. Carturan and G.D. Sorarù, Rheological behaviour of solutions affording SiO_2 and SiO_2/ZrO_2 fibers 134 (1991) 191
Brillerty, C., see Pierz 137&138 (1991) 107
Brinker, C.J., see Warren 136 (1991) 151
Brodka, A. and T.W. Zerda, Molecular dynamics simulation of reorientation motion of SF_6 in porous sol–gel glass 139 (1992) 215
Brotzman, R.W., see Nan 139 (1992) 172
Bruce, N.A., see Morgan 137&138 (1991) 149
Brüggemann, R., see Marshall 137&138 (1991) 343
Brüggemann, R., G. Schumm, C. Main, J. Berkin and G.H. Bauer, Simulation of modulated photoconductivity in sandwich configuration 137&138 (1991) 359
Brüggemann, R., see Main 137&138 (1991) 439
Brüggemann, R., see Pohlmann 137&138 (1991) 547
Brüggemann, R., see Mohring 137&138 (1991) 847
Brüggemann, R., see Main 137&138 (1991) 951
Bruno, G., P. Capezzuto, M. Losurdo, P. Manodoro and G. Cicala, Deposition of silicon–germanium alloys under plasma modulation conditions 137&138 (1991) 753
Bruns, J., S. Gall and H.G. Wagemann, On the bias dependent spectral characteristics of a-Si:H solar cells 137&138 (1991) 1193
Bube, R.H., see Redfield 137&138 (1991) 215
Bunde, A. and P. Maass, Diffusion in disordered systems: non-Debye relaxation due to long-range interactions 131–133 (1991) 1022
Bunde, A., M.D. Ingram, P. Maass and K.L. Ngai, Mixed alkali effects in ionic conductors: a new model and computer simulations 131–133 (1991) 1109
Bunde, A., see Angell 131–133 (1991) 1113
Buri, A., see Branda 134 (1991) 123
Burns, A., H.P. Brack and W.M. Risen Jr, Dielectric and infrared reflectance studies of inorganic oxide glasses 131–133 (1991) 994
Burns, J., see Capps 131–133 (1991) 877
Burr, J.N., see Morgan 137&138 (1991) 149
Bustarret, E., M.S. Brandt, M. Stutzmann and M. Favre, Explosive

isothermal hydrogen exodiffusion in VHF-GD a-Si:H thick layers 137&138 (1991) 53
Bustarret, E., see Favre 137&138 (1991) 335

Callaerts, R., see Nagels 137&138 (1991) 1001
Cambon, P., see Chevrier 137&138 (1991) 1325
Cametti, C., P. Codastefano and P. Tartaglia, High-frequency dielectric dispersions in dilute water-in-oil microemulsions 131–133 (1991) 187
Campbell, I.H., see Fauchet 137&138 (1991) 729
Campmany, J., see Bertran 137&138 (1991) 895
Caneva, R., see Boninconto 131–133 (1991) 1186
Canillas, A., see Bertran 137&138 (1991) 895
Capezzuto, P., see Bruno 137&138 (1991) 753
Capps, R.N. and J. Burns, Comparison of viscoelastic and dielectric relaxations as a function of carbon black loading in butyl and chlorobutyl rubber 131–133 (1991) 877
Carbeck, J.D., see Kambour 131–133 (1991) 563
Carciello, N., see Sugama 134 (1991) 58
Carini, G., see Bartolotta 131–133 (1991) 462
Carini, G. and G. Tripodo, Relaxations and local motions in glassy cationic conductors 131–133 (1991) 1028
Carini, J.P., see Wu 131–133 (1991) 32
Carius, R., see Stachowitz 137&138 (1991) 551
Carius, R., see Ambros 137&138 (1991) 555
Carius, R. and F. Becker, Electroluminescence in a-Si:H p–i–n junctions 137&138 (1991) 595
Carter, J.N., R.G. Smart, A.C. Tropper and D.C. Hanna, Thulium-doped fluorozirconate fibre lasers 140 (1992) 10
Carter, S.F., J.R. Williams, M.W. Moore, D. Szebesta and S.T. Davey, Prospects for ultra-low-loss fluoride fibres at BTRL 140 (1992) 153
Carter, S.F., P.W. France and J.R. Williams, Origins of scattering centres in ZrF_4-based infrared fibres, and reduction of loss 140 (1992) 259
Carturan, G., see Brenna 134 (1991) 191
Carvalho, N., see Martins 137&138 (1991) 757
Cassettari, M., see D'Arrigo 131–133 (1991) 58
Cassettari, M., see Bertolini 131–133 (1991) 1169
Castillo Alvarado, F.L., see Avendaño 137&138 (1991) 299
Cauley, B.J., see Jones 131–133 (1991) 556
Cavaillé, J.Y., see Etienne 131–133 (1991) 66
Cavaillé, J.Y., J. Perez and G.P. Johari, A comparison of a point defects theory with mechanical relaxations in polymers 131–133 (1991) 935
Červinka, L., O. Smotlacha, J. Bergerová and L. Tichý, The structure of the glassy Ge–Sb–S system and its connection with the MRO structures of GeS_2 and Sb_2S_3 137&138 (1991) 123
Chamberlin, R.V., D.N. Haines and D.W. Kingsbury, Percolation model for relaxation in random systems 131–133 (1991) 192
Chambouleyron, I., see Graeff 137&138 (1991) 41
Chang, J., A. Yasumori and M. Yamane, Composition of precursor solution for the preparation of the glass of Na_2O–B_2O_3–SiO_2 system using sodium acetate solution 134 (1991) 32
Chelnokov, V., see Marakhonov 137&138 (1991) 817
Chen, C., see Zou 137&138 (1991) 1245
Chen, G., F. Zhang and S. Yan, Electroluminescence of a-SiC:H multilayer films 137&138 (1991) 1263
Chen, K., J. Xu, X. Huang, Z. Li and H. Fritzsche, The study of optical nonlinearity in amorphous Si-based alloys 137&138 (1991) 631
Chen, L., J. Tauc, J. Kočka and J. Stuchlík, Study of metastable states in the gap of doped a-Si:H by photomodulation spectroscopy 137&138 (1991) 251
Chen, L., see Kočka 137&138 (1991) 379
Chen, L.-f. and L. Yang, Kinetics of light induced degradation in a-Si:H solar cells 137&138 (1991) 1185
Chen, L.-f., see Yang 137&138 (1991) 1189
Chen, M., P.F. James, F.R. Jones, D.A. Dalton, B.H. Howard and S. Bedford, Strengthening of soda–lime–silica glass by gel-derived zinc borosilicate and sodium aluminoborosilicate glass coatings 139 (1992) 185
Chen, S.H., J. Rouch and P. Tartaglia, Non-exponential relaxation in dense microemulsions 131–133 (1991) 275
Chen, Y., see Mahan 137&138 (1991) 65
Chen, Z., see Lin 137&138 (1991) 1249
Cheng, J., see Xenopoulos 131–133 (1991) 113
Cheng, J., see Liang 136 (1991) 205
Cheng, J., see Dai 140 (1992) 229
Cheng, J., G. Dai, C. Zhang, G. Dong and K. Wang, Progress in purification of fluoride optical fiber materials 140 (1992) 293
Chernukhin, V.P., see Gotchiyaev 137&138 (1991) 1297
Chernyshov, S.V., E.I. Terukov, V.A. Vassilyev and A.S. Volkov, Radiative recombination in a-$Si_{1-x}C_x$:H films 134 (1991) 218
Chevrier, J.B., see Fang 137&138 (1991) 791
Chevrier, J.B., P. Cambon, R.C.

Chittick and B. Equer, Use of n–i–p–i–n a-Si:H structure for bistable optically addressed spatial light modulator 137&138 (1991) 1325
Chi, D.-Z., see Fritzsche 137&138 (1991) 467
Chiaranussati, P., see Gladden 139 (1992) 47
Chiaruttini, I., see Fonteneau 140 (1992) 340
Chiccoli, C., see Biscarini 131–133 (1991) 1190
Chieux, P., see Gladden 139 (1992) 47
Chigusa, Y., see Kogo 140 (1992) 233
Chik, K.P., see Ong 137&138 (1991) 923
Chittick, R.C., see Chevrier 137&138 (1991) 1325
Cho, G., see Perez-Mendez 137&138 (1991) 1291
Christodoulides, C., see Pissis 131–133 (1991) 1174
Chryssikos, G.D., E.I. Kamitsos, M.S. Bitsis and A.P. Patsis, Chemical relaxations at the glass transition of a lithium conducting glass 131–133 (1991) 1068
Chryssikos, G.D., see Ingram 131–133 (1991) 1089
Chryssikos, G.D., see Kamitsos 131–133 (1991) 1092
Chryssikos, G.D., see Koritala 134 (1991) 277
Chu, B. and Z. Wang, DNA electrophoretic mobility and deformation in agarose gels 131–133 (1991) 685
Chu, Y.T., see Bates 131–133 (1991) 1046
Chumash, V., see Popescu 137&138 (1991) 973
Churbanov, M.F., Recent advances in preparation of high-purity chalcogenide glasses in the USSR 140 (1992) 324
Cicala, G., see Bruno 137&138 (1991) 753
Cicerone, M.T., see Hyde 131–133 (1991) 42
Clarke, K. and Y. Ito, Manufacture of fluoride glass preforms 140 (1992) 265
Clavaguera, N., see Clavaguera-Mora 131–133 (1991) 479
Clavaguera-Mora, M.T., M.D. Baró, S. Suriñach, J. Saurina and N. Clavaguera, Enthalpy recovery in Se rich Ge–Se glasses during isothermal annealing and continuous heating 131–133 (1991) 479
Cleve, B., B. Movaghar, R. Schumacher and P. Thomas, High-field and low-field transport in amorphous semiconductors 137&138 (1991) 415
Codastefano, P., see Cametti 131–133 (1991) 187
Coelho, R., On the static permittivity of dipolar and conductive media – an educational approach 131–133 (1991) 1136
Cohen, J.D., see Leen 137&138 (1991) 319
Cohen, J.D., see Unold 137&138 (1991) 809
Cohen-Addad, J.P., NMR approach to melt properties: segmental motions, temporary elasticity and terminal relaxation 131–133 (1991) 693
Cojocaru, I., see Popescu 137&138 (1991) 973
Cole, R.H. and E. Tombari, Analysis of electric relaxation in sodium trisilicate and lithium fluoroborate glasses from 10^2 to 10^9 Hz and 25 to 300°C 131–133 (1991) 969
Cole, R.H., Charge motions and dynamics of relaxation 131–133 (1991) 1125
Collins, R.W., see Li 137&138 (1991) 787
Colmenero, J., see Alegría 131–133 (1991) 457
Colmenero, J., α-relaxation and molecular dynamics in glass-forming polymeric systems 131–133 (1991) 860
Colmenero, J., A. Alegría, J.M. Alberdi and B. Frick, Dynamics of the α-process of polymer systems on a microscopical timesale. Neutron and nuclear magnetic resonance study 131–133 (1991) 949
Colombo, P., see Armelao 139 (1992) 198
Comes, F.J., see Roth 137&138 (1991) 721
Condat, C.A. and J. Jäckle, Diffusion and gating in membrane proteins 131–133 (1991) 369
Conde, L., E. Riande, M.A. Rubio and V. Fairén, Non-linear effects in the vicinity of the resonant frequency of viscoelastic measurements devices 131–133 (1991) 883
Cooke, D.W., see Davis 137&138 (1991) 17
Coppersmith, S.N., see Yu 131–133 (1991) 476
Coppola, F., see de Seta 137&138 (1991) 867
Corey, R., see Norberg 137&138 (1991) 71
Cornil, E., see Leblanc 137&138 (1991) 1165
Costa, L.C., see Mendiratta 131–133 (1991) 990
Coulson, D., see Andrews 140 (1992) 281
Courtens, E., see Grimm 131–133 (1991) 76
Cox, S.F.J., see Davis 137&138 (1991) 17
Crandall, R.S., see Vaněček 137&138 (1991) 191
Crandall, R.S., S.J. Salamon and Y. Xu, Density of states spectroscopy in p-type a-Si:H and a-SiC:H 137&138 (1991) 311
Crandall, R.S., see Mahan 137&138 (1991) 657
Crichton, S.N., see Moynihan 131–133 (1991) 420
Crist, B., see Finerman 131–133 (1991) 620
Crist, B., Polymer self-diffusion measurements by small-angle neutron scattering 131–133 (1991) 709
Crowder, M.S., see Kanicki 137&138 (1991) 291
Cukierman, S., J.-L. Halary and L. Monnerie, Molecular analysis of the viscoelastic properties of epoxy networks as deduced from the study of model systems 131–133 (1991) 898
Cunat, Ch., A thermodynamic theory of relaxation based on a distribution of non-linear processes 131–133 (1991) 196
Cunat, Ch., A relaxation theory to explain the rheology of elasto-plastic materials 131–133 (1991) 812

Cusack, S., see Doster 131–133 (1991) 357
Cuve, L., see Boiteux 131–133 (1991) 1131
Cytermann, C., see Edelman 137&138 (1991) 1063
Czternastek, H., see Pisarkiewicz 137&138 (1991) 619

Dahlborg, U., see Dzugutov 131–133 (1991) 62
Dai, G., J. Huang, J. Cheng, C. Zhang, G. Dong and K. Wang, A new preparation route for high purity ZrF_4 140 (1992) 229
Dai, G., see Cheng 140 (1992) 293
Dalton, D.A., see Chen 139 (1992) 185
Damrau, U. and H.C. Marsmann, The hydrolysis of $[OSi(OCH_3)_2]_4$ – a new precursor for the sol–gel process 135 (1991) 15
Daoukaki-Diamanti, D., see Pissis 131–133 (1991) 1174
Daoukaki-Diamanti, D., see Anagnostopoulou-Konsta 131–133 (1991) 1182
D'Arrigo, G., A. Paparelli, D. Bertolini, M. Cassettari, G. Salvetti, E. Tombari and S. Veronesi, Ultrasonic, dielectric and thermodynamic properties of 2-butoxyethanol 131–133 (1991) 58
Das, T., see Bari 136 (1991) 173
Dattagupta, S., Orientational ordering as a possible mechanism for viscosity-enhancement of supercooled liquids 131–133 (1991) 200
Davey, S.T., see Carter 140 (1992) 153
Davidson, B.N., G. Lucovsky and J. Bernholc, Effect of the local disorder in a-Si on the electronic density of states near the band edges 137&138 (1991) 307
Davis, E.A., A. Singh, S.F.J. Cox, S.R. Kreitzman, T.L. Estle, B. Hitti, R.L. Lichti, D. Lamp, R. Duvarney, D.W. Cooke, M. Paciotti and A.C. Wright, Studies of muon implantation in amorphous and crystalline silicon 137&138 (1991) 17
Davis, E.A., see Asal 137&138 (1991) 931
Dawson, R.M., see Fortmann 137&138 (1991) 207
De, G., see Karmakar 135 (1991) 29
de Seta, M., S.L. Wang, P. Narducci and F. Evangelisti, Nature of valence states of a-$Si_{1-x}C_x$:H alloys in the low carbon concentration limit 137&138 (1991) 851
de Seta, M., P. Fiorini, F. Coppola and F. Evangelisti, Distribution of occupied states in a-C:H and a-$Si_{1-x}C_x$:H alloys as determined by total yield spectroscopy 137&138 (1991) 867
De Tar, M.M., see Sheu 131–133 (1991) 341

Deane, S.C., see Powell 137&138 (1991) 1215
Del Rio, C., see Linares 131–133 (1991) 1149
Delage, J., see Holloway 134 (1991) 133
Delben, A.T., see Gonçalves 140 (1992) 52
DellaMea, G., F. Demichelis, C.F. Pirri, P. Rava, V. Rigato, T. Stapinski and E. Tresso, Influence of hydrogen on the evolution of structural properties of amorphous silicon carbide 137&138 (1991) 95
Demichelis, F., see Battezzati 137&138 (1991) 87
Demichelis, F., see DellaMea 137&138 (1991) 95
Demichelis, F., C.F. Pirri and A. Tagliaferro, A new method for evaluation of sp3/sp2 ratio in diamond-like films from optical measurements 137&138 (1991) 839
Deng, P., R. Li, P. Zhang, H. Wang and F. Gan, Defects and scattering loss in fluoride fibers: a review 140 (1992) 307
Deng, X.-M., see Hamed 137&138 (1991) 287
Denisov, V.N., see Popova 135 (1991) 255
Deroide, B., see Bensimon 134 (1991) 239
Derrey, T., see Vautier 131–133 (1991) 520
Derst, G., see Ruttensperger 137&138 (1991) 635
Deutsch, H.-P., see Binder 131–133 (1991) 635
Devaud, G., C. Hayzelden, M.J. Aziz and D. Turnbull, Growth of quartz from amorphous silica at ambient pressure 134 (1991) 129
Devine, R.A.B., see Arndt 131–133 (1991) 1206
Devlen, R.I., see Antoniadis 137&138 (1991) 407
Devlin, K., B. O'Kelly, Z.R. Tang, C. McDonagh and J.F. McGilp, A structural study of the sol–gel process by optical fluorescence and decay time spectroscopy 135 (1991) 8
Dexpert, H., see Armand 139 (1992) 137
Di Marco, G., see Bartolotta 131–133 (1991) 462
Dianoux, A.J., M. Tachez, R. Mercier and J.P. Malugani, Neutron scattering by superionic conductor glasses 131–133 (1991) 973
Díaz-Calleja, R., E. Riande and J. San Román, Inter- and intramolecular interactions in the dielectric behavior of phenyl and chlorophenyl esters of poly(acrylic acid) 131–133 (1991) 852
Dikova, J., see Starbov 139 (1992) 222
Dittrich, H., see Bernhard 137&138 (1991) 1103
Dixmier, J., see Thèye 137&138 (1991) 963
Dixon, P.K., see Wu 131–133 (1991) 32
Doland, C., see Santos 137&138 (1991) 33
Dolinšek, J., see Blinc 131–133 (1991) 125
Dong, G., see Dai 140 (1992) 229
Dong, G., see Cheng 140 (1992) 293

Dong, G., see Zan 140 (1992) 331
Donth, E., Characteristic length of glass transition 131–133 (1991) 204
Doster, W., S. Cusack and W. Petry, Structural dynamics of proteins, scaling behaviour and liquid glass transition 131–133 (1991) 357
Doyle, J.R., see Myers 137&138 (1991) 783
Drevillon, B., see Blayo 137&138 (1991) 771
Drevillon, B., see Blayo 137&138 (1991) 775
Drevillon, B., see Fang 137&138 (1991) 791
Drevillon, B., see Wu 137&138 (1991) 863
Drevillon, B., see Roca i Cabarrocas 137&138 (1991) 1055
Drewery, J., see Perez-Mendez 137&138 (1991) 1291
Drüsedau, T., H. Fiedler, H. Sobotta and V. Riede, Infrared-spectroscopic investigation of sputtered a-$Si_{56}Ge_{44}$:N:H films 135 (1991) 67
Drüsedau, T., The influence of nitrogen on the optical and electrical properties of sputtered a-$Si_{56}Ge_{44}$:N:H films 135 (1991) 204
Drüsedau, T., The role of nitrogen in sputtered a-Si:H, a-Ge:H and a-$Si_{56}Ge_{44}$:N:H 137&138 (1991) 821
Dubail, S., see Prasad 137&138 (1991) 681
Ducourant, B., see Bensimon 134 (1991) 239
Duran, R. S., see McKenna 131–133 (1991) 497
Dusane, R.O., S.R. Dusane, V.G. Bhide and S.T. Kshirsagar, Effect of local structural order on the doping in hydrogenated amorphous silicon (a-Si:H) 137&138 (1991) 115
Dusane, R.O., see Bhusari 137&138 (1991) 689
Dusane, S.R., see Dusane 137&138 (1991) 115
Dutt, D.A., P.L. Higby, C.I. Merzbacher and D.L. Griscom, Compositional dependence of trapped hole centers in gamma-irradiated calcium aluminosilicate glasses 135 (1991) 122
Duvarney, R., see Davis 137&138 (1991) 17
Dyre, J.C., Some remarks on ac conduction in disordered solids 135 (1991) 219
Dzugutov, M. and U. Dahlborg, Molecular dynamics study of the coherent density correlation function in a supercooled simple one-component liquid 131–133 (1991) 62

Eastman, C.E., see Schrag 131–133 (1991) 537
Eastman, C.E., see Amelar 131–133 (1991) 551
Eberhardt, K., see Heintze 137&138 (1991) 49
Eberhardt, K., M. Heintze and G.H. Bauer, Thermally induced changes of conductivity in undoped and doped amorphous germanium 137&138 (1991) 187
Edelman, F., C. Cytermann, R. Brener, M. Eizenberg, R. Weil and W. Beyer, Phase transformation in the Cr/a-Si system during low temperature annealing 137&138 (1991) 1063
Ediger, M.D., see Hyde 131–133 (1991) 42
Egami, T., see Hsieh 135 (1991) 248
Eichmeier, G., see Kasper 137&138 (1991) 799
Eizenberg, M., see Edelman 137&138 (1991) 1063
El Farissi, M., see Saad 140 (1992) 112
Elinson, V.M., see Sleptsov 136 (1991) 53
Elliott, S.R. and A.P. Owens, Non-exponential relaxation in ionically conducting glasses: the diffusion-controlled relaxation model 131–133 (1991) 1036
Elliott, S.R., see Owens 131–133 (1991) 1104
Elliott, S.R., see Henn 136 (1991) 60
Elliott, S.R., see Shimakawa 137&138 (1991) 1017
Elliott, S.R., Photodissolution of metals in chalcogenide glasses: a unified mechanism 137&138 (1991) 1031
Elmroth, M., see Börjesson 131–133 (1991) 139
Enachescu, M., see Hartmann 137&138 (1991) 1067
Enachi, N., see Popescu 137&138 (1991) 973
Equer, B., see Wu 137&138 (1991) 179
Equer, B., see Wu 137&138 (1991) 227
Equer, B., see Wu 137&138 (1991) 1075
Equer, B., see Chevrier 137&138 (1991) 1325
Esipov, S., see Antoniadis 137&138 (1991) 407
Esser, A., H. Heesel, H. Kurz, C. Wang, M.J. Williams and G. Lucovsky, The role of dangling bond states in the picosecond recovery of photoinduced absorption in a-Si:H 137&138 (1991) 535
Estle, T.L., see Davis 137&138 (1991) 17
Etienne, S., J.Y. Cavaillé and J. Perez, Molecular mobility in the liquid–glass transition range: cooperative motions 131–133 (1991) 66
Etienne, S., J. Perez, A. Pradel and M. Ribes, Ionic and atomic degrees of freedom in silver chalcogenide glasses studied by mechanical and electrical spectroscopies 131–133 (1991) 1072
Evangelisti, F., see Meneghini 137&138 (1991) 75
Evangelisti, F., see de Seta 137&138 (1991) 851
Evangelisti, F., see de Seta 137&138 (1991) 867
Evert, T.E., see Hyde 131–133 (1991) 42
Ewen, B., see Richter 131–133 (1991) 604
Ewen, B., D. Richter, L.J. Fetters, J.S. Huang and B. Farago, Neutron scattering studies on the relation between structure and dynamics of star-shaped polymers 131–133 (1991) 697
Ewen, P.J.S., see Hajto 137&138 (1991) 1039
Ewen, P.J.S., see Zakery 137&138 (1991) 1333

Ewen, P.J.S., see Kozicki 137&138 (1991) 1341

Faber, W., see Heitjans 131–133 (1991) 1053
Fairén, V., see Conde 131–133 (1991) 883
Fan, Y., see Zhong 134 (1991) 141
Fanfoni, M., A. Pecora, G. Fortunato, L. Mariucci, S. Priori and C. Quaresima, Hydrogen effects on a-SiO_2: a photoemission study 137&138 (1991) 1079
Fang, M., J.B. Chevrier and B. Drevillon, In situ investigation of the growth of microcrystalline silicon obtained by alternating deposition and hydrogen-etching sequences 137&138 (1991) 791
Fang, M., see Wu 137&138 (1991) 863
Farago, B., see Frick 131–133 (1991) 169
Farago, B., see Richter 131–133 (1991) 604
Farago, B., see Ewen 131–133 (1991) 697
Farooqui, K., see Koritala 134 (1991) 277
Fauchet, P.M., see Hulin 137&138 (1991) 527
Fauchet, P.M., see Vanderhaghen 137&138 (1991) 543
Fauchet, P.M. and I.H. Campbell, Crystallization of a-Si:H with cw and pulsed lasers 137&138 (1991) 729
Favre, M., see Bustarret 137&138 (1991) 53
Favre, M., A. Shah, J. Hubin, E. Bustarret, M.A. Hachicha and S. Basrour, Nature of deep defects in bulk VHF-GD a-Si:H 137&138 (1991) 335
Fedders, P.A., see Norberg 137&138 (1991) 71
Fedders, P.A., Defects, tight binding, and ab initio molecular dynamics simulations on a-Si 137&138 (1991) 141
Fehst, I., see Loidl 131–133 (1991) 269
Felcher, G.P., A. Karim and T.P. Russell, Interdiffusion at the interface of polymeric bilayers: evidence for reptation? 131–133 (1991) 703
Feller, S., see Koritala 134 (1991) 277
Fellman, J., see Ljungdahl 136 (1991) 137
Feng, G.J., M. Katiyar, J.R. Abelson and N. Maley, Hydrogenation induced changes in band states in a-Si:H 137&138 (1991) 331
Feng, G.J., see Myers 137&138 (1991) 783
Feng, J., see Zhang 140 (1992) 220
Feng, J., see Zhang 140 (1992) 238
Fernández, J., M.A. Illarramendi, R. Balda, M.A. Arriandiaga, J. Lucas and J.L. Adam, Electronic relaxation of the $^4T_2$ state of chromium(III) in BIGaZYT fluoride glasses 131–133 (1991) 1230
Ferreira, I., see Martins 137&138 (1991) 757
Fetters, L., see Kremer 131–133 (1991) 728
Fetters, L.J., see Richter 131–133 (1991) 604
Fetters, L.J., see Ewen 131–133 (1991) 697
Fiedler, H., see Drüsedau 135 (1991) 67
Finerman, T.M. and B. Crist, Self-diffusion of polydisperse linear polymers 131–133 (1991) 620
Finger, F., see Wyrsch 137&138 (1991) 347
Finger, F., see Prasad 137&138 (1991) 681
Finocchi, F., G. Galli, M. Parrinello and C.M. Bertoni, Structural properties of amorphous SiC via ab-initio molecular dynamics 137&138 (1991) 153
Fiorini, P., see Fornarini 137&138 (1991) 491
Fiorini, P., see de Seta 137&138 (1991) 867
Fischer, E.W., G. Meier, T. Rabenau, A. Patkowski, W. Steffen and W. Thönnes, Density fluctuations around the glass-transition of low molecular weight glass-forming liquids 131–133 (1991) 134
Fischer, E.W., see Momper 131–133 (1991) 624
Fischer, E.W., see Borsali 131–133 (1991) 816
Fischer, R., see Pohlmann 137&138 (1991) 547
Fischer, T., see Wang 137&138 (1991) 1143
Flank, A.-M., see Udron 137&138 (1991) 131
Fleet, M.E., see Henderson 134 (1991) 259
Fleischmann, A., see Kozlowski 137&138 (1991) 91
Floudas, G. and G. Fytas, Dynamic light scattering from a polymer/additive system 131–133 (1991) 579
Fonseca, F.J., see Bianconi 137&138 (1991) 725
Fonteneau, G., see Zhang 140 (1992) 47
Fonteneau, G., I. Chiaruttini, S. Mitachi and J. Lucas, Optical dispersion of an indium-based fluoride glass 140 (1992) 340
Förderer, M., see Jacobsen 137&138 (1991) 989
Fornarini, L., A. Mittiga, M. Sebastiani and P. Fiorini, Numerical simulation of the effect of surface defects on the photoconductivity of N-doped a-Si:H 137&138 (1991) 491
Forsman, H. and O. Andersson, Dielectric relaxation and a new phase of cyclooctanol at pressures to 1 GPa 131–133 (1991) 1145
Fortmann, C.M., R.M. Dawson and C.R. Wronski, Charge-defect equilibrium description of metastable defect concentrations 137&138 (1991) 207
Fortmann, C.M., see Unold 137&138 (1991) 809
Fortuna, F., see Roca i Cabarrocas 137&138 (1991) 1055
Fortunato, E., see Vieira 137&138 (1991) 479
Fortunato, G., see Bianconi 137&138 (1991) 725
Fortunato, G., see Fanfoni 137&138 (1991) 1079
Fortunato, G., M. Gentili, L. Luciani, L. Mariucci, A. Mattacchini and A. Pecora, Short-channel effects in 0.2

μm channel length a-Si:H thin-film transistors fabricated by electron beam lithography 137&138 (1991) 1225
Fortunato, G., see Pecora 137&138 (1991) 1253
Fourrier-Lamer, A., see Badot 131–133 (1991) 1227
Frammelsberger, W., see Rübel 137&138 (1991) 1169
France, P.W., see Carter 140 (1992) 259
Frauenheim, Th., see Rohwer 137&138 (1991) 843
Freire Jr, F.L., see Graeff 137&138 (1991) 41
Freitas Jr, J.A., J.S. Sanghera, U. Strom, P.C. Pureza and I.D. Aggarwal, Raman scattering studies of microcrystalline inclusions in fluoride glasses and fibers 140 (1992) 166
Frerichs, Ch., see Wetenkamp 140 (1992) 19
Frick, B., R. Zorn, D. Richter and B. Farago, Investigation of the glass transition in polymers under the aspect of mode coupling predictions 131–133 (1991) 169
Frick, B., see Colmenero 131–133 (1991) 949
Friebele, E.J., see Ruller 136 (1991) 163
Frischat, G.H., see Szabo 140 (1992) 16
Fritzsche, H., see Hamed 137&138 (1991) 287
Fritzsche, H., M.Q. Tran, B.-G. Yoon and D.-Z. Chi, The sign of photocarriers and thermal quenching of photoconductivity in a-Si:H 137&138 (1991) 467
Fritzsche, H., see Levin 137&138 (1991) 559
Fritzsche, H., see Baranovskii 137&138 (1991) 567
Fritzsche, H., see Chen 137&138 (1991) 631
Froudakis, G., see Zdetsis 137&138 (1991) 303
Frumar, M., see Vlček 137&138 (1991) 1035
Fuhs, W., see Lips 137&138 (1991) 255
Fuhs, W., see Rath 137&138 (1991) 279
Fuhs, W., see Tzanetakis 137&138 (1991) 463
Fuhs, W., see Stachowitz 137&138 (1991) 551
Fuhs, W., see Liedtke 137&138 (1991) 583
Fuhs, W., see Nickel 137&138 (1991) 1221
Fujieda, I., see Perez-Mendez 137&138 (1991) 1291
Fujieda, I., S. Nelson, P. Nylén, R.A. Street and R.L. Weisfield, Two operation modes of 2D a-Si sensor arrays for radiation imaging 137&138 (1991) 1321
Fujinaga, S., see Matsuoka 135 (1991) 86
Fujiyama, T., T. Yokoyama, M. Hori and M. Sasaki, Silica glass doped with Nd and Al prepared by sol–gel method. Change in the state of aluminium in the formation process 135 (1991) 198
Fujiyoshi, T., M. Onuki, K. Honmyo, H. Kubota and T. Matsumoto, Doping for making n- and p-type a-GaP:H films during reactive evaporation and sputtering 137&138 (1991) 935
Fukui, T., C. Sakurai and M. Okuyama, Lower-temperature preparation of $Pb(Mg_{1/3}Nb_{2/3})O_3$ with a perovskite structure by the complex alkoxide method 134 (1991) 293
Fukui, T., C. Sakurai and M. Okuyama, Structure and hydrolysis of a complex alkoxide as a cordierite precursor 139 (1992) 205
Fukunaga, J., see Ota 139 (1992) 93
Fuller, G.G. and C.M. Ylitalo, Infrared polarimetry studies for multicomponent polymer melts 131–133 (1991) 676
Furić, K., see Ivanda 137&138 (1991) 103
Furukawa, A., Y. Iida, T. Yamaguchi, N. Harada, H. Nozaki, T. Kamimura, K. Yano, H. Ito and K. Okumura, A new, laminar flow photo-CVD method for preparing hydrogenated amorphous silicon films 137&138 (1991) 665
Furukawa, A., see Kimura 137&138 (1991) 919
Furukawa, A., see Iida 137&138 (1991) 1313
Furukawa, A., see Miyagawa 137&138 (1991) 1317
Furukawa, T., Non-linear dielectric relaxations of polymers 131–133 (1991) 1154
Furukawa, T., see Nitta 137&138 (1991) 1095
Futagi, T., N. Ohtani, M. Katsuno, K. Kawamura, Y. Ohta, H. Mimura and K. Kitamura, An amorphous SiC thin film visible light-emitting diode with a μc-SiC:H electron injector 137&138 (1991) 1271
Fytas, G., see Pavlatou 131–133 (1991) 88
Fytas, G. and K.L. Ngai, Evidence of modification of solvent reorientation dynamics from depolarized Rayleigh spectra of polymer in Aroclor solutions 131–133 (1991) 544
Fytas, G., see Floudas 131–133 (1991) 579
Fytas, G., see Kanetakis 131–133 (1991) 823

Galeczki, G., see Pelster 131–133 (1991) 238
Gall, S., see Bruns 137&138 (1991) 1193
Galli, G., see Finocchi 137&138 (1991) 153
Gamulin, O., see Ivanda 137&138 (1991) 103
Gan, F., Structure, properties and applications of chalcohalide glasses: a review 140 (1992) 184
Gan, F., see Li 140 (1992) 194
Gan, F., see Zhang 140 (1992) 220
Gan, F., see Zhang 140 (1992) 238
Gan, F., see Deng 140 (1992) 307
Gangopadhyay, S., C. Palsule and W. Borst, Effect of light degradation on nanosecond photoluminescence decay in a-Si:H 137&138 (1991) 539

Gangopadhyay, S., M. Pleil, W. Borst, C. Young and M. Kristiansen, Picosecond time-resolved photoluminescence characterization of a-SiC:H films prepared by electron cyclotron resonance plasma 137&138 (1991) 859
Ganguli, D., see Karmakar 135 (1991) 29
Ganguli, D., see Patra 139 (1992) 165
Garofalini, S.H., see Melman 134 (1991) 107
Gaspard, J.-P., see Udron 137&138 (1991) 131
Gaughan, K., S. Hershgold, J.M. Viner and P.C. Taylor, Growth of a-Si:H and related alloys using liquid organic sources 137&138 (1991) 709
Gauthier, M., Dual beam modulated photoconductivity: a kinetic analysis 137&138 (1991) 611
Gazicki, M., see Tyczkowski 137&138 (1991) 875
Gelatos, A., see Godet 137&138 (1991) 1051
Geng, X., see Liu 137&138 (1991) 507
Geng, X., see Liu 139 (1992) 74
Gentili, M., see Fortunato 137&138 (1991) 1225
Georga, S.N., see Xanthopoulos 131–133 (1991) 1099
Georgoulas, N., see Magafas 139 (1992) 146
Gerasimovich, S.S., see Sleptsov 136 (1991) 53
Gerber, Th., see Himmel 136 (1991) 27
Gerditskaya, J., see Andrianova 137&138 (1991) 79
Gerharz, B., see Meier 131–133 (1991) 144
Gheorghiu, A., see Wu 137&138 (1991) 863
Gheorghiu, A., see Thèye 137&138 (1991) 963
Ghosh, S., see Koritala 134 (1991) 277
Giannelis, E.P., see Mehrotra 136 (1991) 97
Gibson, R.A.G., see Kosarev 137&138 (1991) 371
Gidley, D.W., see Liu 131–133 (1991) 492
Giebel, L., see Borsali 131–133 (1991) 816
Giona, M., L. Marrelli and P. Piccirilli, Multifractal analysis of frequency spectra 131–133 (1991) 71
Giona, M., see Roman 131–133 (1991) 207
Girginoudi, D., see Magafas 139 (1992) 146
Giridhar, A. and S. Mahadevan, Topological transitions and chemical ordering in Ge–In–Se glasses 134 (1991) 94
Gissler, W., see Rohwer 137&138 (1991) 843
Giuntini, J.C., see Henn 131–133 (1991) 1084
Giuntini, J.C., see Bensimon 134 (1991) 239
Giuntini, J.C., see Henn 136 (1991) 60
Gladden, L.F., M. Vignaux, P. Chiaranussati, R.W. Griffiths, S.D. Jackson, J.R. Jones, A.P. Sharratt, F.J. Robertson, G. Webb, P. Chieux and A.C. Hannon, Structural studies of high surface area silicas 139 (1992) 47
Glatz, F., see Vepřek 137&138 (1991) 779
Glodt, O., see Kleider 137&138 (1991) 447
Goates, S.R., see Silence 131–133 (1991) 37
Göbel, E.O., see Pohlmann 137&138 (1991) 547
Godet, C., J. Kanicki and A. Gelatos, Transient photocapacitance and capacitance studies of interface and bulk states in metal/a-Si $N_{1.6}$:H/a-Si:H/c-Si devices 137&138 (1991) 1051
Goesman, F. and D.I. Jones, Thermoelectric power under illumination 137&138 (1991) 471
Goh, S.C., A spectroscopic study of the best pump wavelength in the 800 nm band for erbium-doped fluorozirconate fibre amplifiers 140 (1992) 179
Goitiandia, L., see Alegría 131–133 (1991) 457
Golikova, O.A., see Sokolov 137&138 (1991) 99
Gomperts, S., see Kivelson 131–133 (1991) 327
Gonçalves, M.C., R.M. Almeida, A.T. Delben and M.A. Aegerter, Influence of water on the physical properties of fluoride glass 140 (1992) 52
González, J., see Blanco 136 (1991) 91
Gopal, E.S.R., see Ramakrishna 139 (1992) 129
Gotchiyaev, V.Z., V.P. Korolkov, A.P. Sokolov and V.P. Chernukhin, High resolution optical recording on a-Si films 137&138 (1991) 1297
Götze, W., see Sjögren 131–133 (1991) 153
Götze, W. and L. Sjögren, β-relaxation in supercooled liquids 131–133 (1991) 161
Götze, W., C.T. Moynihan and K. Nelson (moderator), Discussion Session – Viscous liquids and glass transitions: the linear response regime 131–133 (1991) 378
Govindaraj, G., see Satyanarayana 136 (1991) 219
Gracin, D., see Ivanda 137&138 (1991) 103
Graeff, C.F. de O., F.L. Freire Jr and I. Chambouleyron, Hydrogen diffusion in rf-sputtered a-Ge:H thin films 137&138 (1991) 41
Graham, M., see Bellingham 137&138 (1991) 519
Gránásy, L., A simplified treatment of transient nucleation in case of rapid quenching 136 (1991) 266
Grande, T., see Aasland 140 (1992) 69
Grande, T., S. Aasland and S. Julsrud, Phase equilibria in the glass-forming system ZrF_4–BaF_2 140 (1992) 73
Granek, R., see Nitzan 131–133 (1991) 1018
Granozzi, G., see Armelao 139 (1992) 198
Greenblatt, M., see Wang 134 (1991) 249
Greenblatt, M., see Tsai 135 (1991) 131
Greenblatt, M., see Tsai 136 (1991) 227
Greenfield, M., see Kivelson 131–133 (1991) 327
Grenet, J., see Saiter 131–133 (1991) 524
Grevendonk, W., see Herremans 137&138 (1991) 855
Griffiths, R.W., see Gladden 139 (1992) 47
Grimm, H., E. Courtens and K. Parlinski, Two-step freezing process in

the mixed crystal RADP 131–133 (1991) 76
Griscom, D.L., see Tsai 131–133 (1991) 1240
Griscom, D.L., see Dutt 135 (1991) 122
Grozescu, A., see Popescu 137&138 (1991) 973
Gu, S.Q., P.C. Taylor and J. Ristein, Subband optical excitation and recombination in a-Si:H 137&138 (1991) 591
Gu, S.Q., see Nitta 137&138 (1991) 1071
Guglielmi, M., see Armelao 139 (1992) 198
Guha, S., see Antoniadis 137&138 (1991) 407
Guimarães, L., see Vieira 137&138 (1991) 479
Guimarães, L., see Martins 137&138 (1991) 757
Günzel, E., see Kusian 137&138 (1991) 813
Gupta, P.K., see Huang 139 (1992) 239
Gupta, R., see Hamed 137&138 (1991) 287
Gurman, S.J., see Bayliss 137&138 (1991) 899
Gurman, S.J., A statistical thermodynamic model for the structure of amorphous covalent alloys 139 (1992) 107
Gutenev, M.S., see Koudelka 134 (1991) 86
Gutschker, O. and R. Bindemann, Monte-Carlo simulations of carrier relaxation and recombination in a-Si:H 137&138 (1991) 579
Gutzow, I., see Bartels 136 (1991) 181
Gvardioniv, Y., see Mitsa 137&138 (1991) 959

Habraken, F.H.P.M., see van den Boogaard 137&138 (1991) 29
Hachicha, M.A., see Favre 137&138 (1991) 335
Hack, M., see Street 137&138 (1991) 263
Hack, M.G., A.G. Lewis and J.G. Shaw, Influence of traps on the characteristics of thin film transistors 137&138 (1991) 1229
Hack, M.G., see Shaw 137&138 (1991) 1233
Hagihara, H., see Yasui 140 (1992) 130
Hagihara, H., see Nanba 140 (1992) 269
Haines, D.N., see Chamberlin 131–133 (1991) 192
Hajto, E., R. Belford, P.J.S. Ewen and A.E. Owen, Electrical properties of silver-doped As–S glasses 137&138 (1991) 1039
Hajto, J., M.J. Rose, A.J. Snell, I.S. Osborne, A.E. Owen and P.G. LeComber, Quantised electron effects in metal/a-Si:H/metal thin film structures 137&138 (1991) 499
Hajto, J., see Snell 137&138 (1991) 1257
Halalay, I.C. and K.A. Nelson, Preliminary impulsive stimulated light scattering study of the glass-forming liquid $LiCl/H_2O$: evidence for unusual structural relaxation dynamics 131–133 (1991) 375
Halary, J.-L., see Cukierman 131–133 (1991) 898
Hall, D., see Bayliss 137&138 (1991) 899
Halpern, V., Relaxation processes with age-dependent transition rates 131–133 (1991) 210
Hamakawa, Y., see Hattori 137&138 (1991) 363
Hamakawa, Y., see Okamoto 137&138 (1991) 627
Hamakawa, Y., see Zou 137&138 (1991) 1245
Hamakawa, Y., see Shimizu 137&138 (1991) 1275
Hamakawa, Y., see Yoshimi 137&138 (1991) 1283
Hamanaka, H., S. Minomura and K. Tsuji, Comparative studies of pressure and photo induced structural changes in As_2S_3 glass 137&138 (1991) 977
Hamed, A., H. Fritzsche, X.-M. Deng, S. Köhler and R. Gupta, Metastable defect states and equilibration temperatures in a-SiN_x:H, a-SiO_x:H and a-SiC_x:H 137&138 (1991) 287
Hammam, M., S.M. Al-Alawi, B. Al-Alawi, S. Al-Dallal, S. Aljishi and M. Stutzmann, Structural and electronic properties of ternary hydrogenated amorphous silicon–sulfur–selenium alloys 137&138 (1991) 911
Hammer, P., see Rohwer 137&138 (1991) 843
Han, D., K. Wang and M. Silver, Light induced metastable defects in a-Si:H studied by transient space charge perturbed currents 137&138 (1991) 267
Han, D., see Wang 137&138 (1991) 599
Han, M.-K., see Kim 137&138 (1991) 1161
Hanada, T., M. Kobayashi, S. Tanabe and N. Soga, Preparation and physical properties of rf-sputtered amorphous films in the Al_2O_3–AlN system 135 (1991) 227
Handy, B.E., see Walther 134 (1991) 47
Hanna, D.C., see Carter 140 (1992) 10
Hanna, J., see Shirai 137&138 (1991) 653
Hanna, J., see Shirai 137&138 (1991) 693
Hanna, J., see Kawamura 137&138 (1991) 697
Hannon, A.C., see Gladden 139 (1992) 47
Hansen, M., see Schaefer 131–133 (1991) 777
Hanson, G., see Warne 140 (1992) 319
Hara, M., Ion-channel match in mixed alkali glasses 131–133 (1991) 1076
Harada, N., see Furukawa 137&138 (1991) 665
Harbison, B.B., see Sanghera 140 (1992) 146
Harms, H., see Hoheisel 137&138 (1991) 1181
Hartmann, B. and G.F. Lee, Dynamic mechanical relaxation in some polyurethanes 131–133 (1991) 887
Hartmann, E., M. Enachescu, F. Koch, G. Krötz, G. Müller and R.J. Behm, Electronically induced modifications of a-Si:H(P) films by scanning tunneling microscopy 137&138 (1991) 1067
Hasz, W.C. and C.T. Moynihan,

Physical properties of ZrF_4-based glass-forming melts and glasses 140 (1992) 285
Hata, N., see Isomura 137&138 (1991) 223
Hattori, K., Y. Niwano, H. Okamoto and Y. Hamakawa, Gap-states and their capture-cross-section distribution in a-Si:H studied by frequency-resolved photocurrent spectroscopy 137&138 (1991) 363
Hattori, K., see Okamoto 137&138 (1991) 627
Hattori, K., see Shimizu 137&138 (1991) 1275
Hattori, K., see Yoshimi 137&138 (1991) 1283
Haug, R., see Pannhorst 131–133 (1991) 488
Hautala, J., B. Moosman and P.C. Taylor, Potential p-type doping in amorphous chalcogenide films 137&138 (1991) 1043
Hayashi, K., see Yamaguchi 137&138 (1991) 1305
Hayzelden, C., see Devaud 134 (1991) 129
He, Y., see Hsieh 135 (1991) 248
He, Y.L., see Wang 137&138 (1991) 511
Heermann, D.W., see Paul 131–133 (1991) 650
Heesel, H., see Esser 137&138 (1991) 535
Heintze, M., K. Eberhardt, O. Tress and G.H. Bauer, Infrared spectroscopy during hydrogen effusion of a-Si:H, a-SiGe:H and a-Ge:H 137&138 (1991) 49
Heintze, M., see Eberhardt 137&138 (1991) 187
Heitjans, P., W. Faber and A. Schirmer, β-NMR studies of spin–lattice relaxation in glassy and layer-crystalline compounds 131–133 (1991) 1053
Henderson, G.S. and M.E. Fleet, The structure of glasses along the Na_2O–GeO_2 join 134 (1991) 259
Henn, F., J.C. Giuntini and J.V. Zanchetta, AC conductivity in ionic glasses: analysis of different methods of investigation 131–133 (1991) 1084
Henn, F., S.R. Elliott and J.C. Giuntini, Complex permittivity in ionically conducting solids: a hopping model 136 (1991) 60
Hepburn, A.R., see Marshall 131–133 (1991) 1250
Hepburn, A.R., see Marshall 137&138 (1991) 343
Hepburn, A.R., see Marshall 137&138 (1991) 1237
Herbst, C.A., see Oliver 131–133 (1991) 84
Herion, J., see Beyer 137&138 (1991) 111
Herion, J., see Siebke 137&138 (1991) 339
Herman, M.F., A non-reptation model for polymer dynamics in the melt and concentrated solutions 131–133 (1991) 715
Hermann, K.C., see Schrag 131–133 (1991) 537
Herremans, H., Ö. Öktü, W. Grevendonk and G.J. Adriaenssens, Distribution of electronic gap states in a-Si:C:H with low carbon content 137&138 (1991) 855
Hershgold, S., see Gaughan 137&138 (1991) 709
Hessinger, J., see Loidl 131–133 (1991) 269
Hickey, B.J., see Morgan 137&138 (1991) 149
Higby, P.L., see Tsai 131–133 (1991) 1218
Higby, P.L., see Dutt 135 (1991) 122
Higby, P.L., see Merzbacher 136 (1991) 249
Hilfer, R., Frequency-dependent response and dynamic disorder 131–133 (1991) 213
Himmel, B., J. Weigelt, Th. Gerber and M. Nofz, Structure of calcium aluminosilicate glasses: wide-angle X-ray scattering and computer simulation 136 (1991) 27
Hirai, H., see Yoshida 137&138 (1991) 1287
Hirai, S., see Kogo 140 (1992) 233
Hiramoto, H., see Murayama 137&138 (1991) 1123
Hirao, K., S. Iijima and H. Nasu, Growth process of CdSe microcrystals in CdSe-doped SiO_2 glass thin films 134 (1991) 233
Hirao, K., see Zhang 135 (1991) 55
Hirao, K., see Zhang 135 (1991) 62
Hirao, K., S. Tanabe, S. Kishimoto, K. Tamai and N. Soga, UV and blue upconversion in Tm^{3+}-doped fluoroaluminate glass by 0.655 μm excitation 135 (1991) 90
Hirao, K., see Todoroki 136 (1991) 213
Hirao, K., S. Kishimoto, K. Tanaka, S. Tanabe and N. Soga, Upconversion fluorescence of Ho^{3+} in TeO_2-based glasses 139 (1992) 151
Hirose, M., see Shin 137&138 (1991) 713
Hirose, M., see Aoki 137&138 (1991) 749
Hirose, M., see Miyazaki 137&138 (1991) 1119
Hirose, M., see Murayama 137&138 (1991) 1123
Hirsch, W., see Neitzert 137&138 (1991) 487
Hishikawa, Y., S. Tsuge, N. Nakamura, K. Wakizaka, S. Kouzuma, S. Tsuda, S. Nakano, Y. Kishi and Y. Kuwano, A unified relationship among the opto-electric properties of a-Si:H and approaches for further improvement 137&138 (1991) 717
Hitsuishi, K., see Nakayama 137&138 (1991) 669
Hitti, B., see Davis 137&138 (1991) 17
Höchli, U.T., see Loidl 131–133 (1991) 269
Hodge, I.M., Adam–Gibbs formulation of non-linear enthalpy relaxation 131–133 (1991) 435
Hodge, I.M., see O'Reilly 131–133 (1991) 451
Hodge, I.M., see Hofer 139 (1992) 78
Hodgson, D.F. and E.J. Amis, Dynamic viscoelasticity during sol–gel reactions 131–133 (1991) 913
Hofer, K., E. Mayer and I.M. Hodge, Physical ageing and modelling of the glass–liquid transition

of water and aqueous solutions imbibed in poly-(2-hydroxyethyl-methacrylate) and in the bulk state 139 (1992) 78
Hofmann, S., see Sharma 136 (1991) 126
Hoheisel, M., see Kočka 137&138 (1991) 427
Hoheisel, M., O. Štika and J. Kočka, Systematic study of the influence of contacts on CPM results 137&138 (1991) 615
Hoheisel, M., E. Reichle, H. Harms and J. Kotschy, Temperature dependence of the photocurrent in pin and nip solar cell structures made from a-Si:H 137&138 (1991) 1181
Höhler, R., G. Kasper and S. Hunklinger, Are the low-temperature relaxations of glassy ferroelectrics hierarchical? 131–133 (1991) 217
Holender, J.M., see Morgan 137&138 (1991) 149
Holland, D., see Sahar 140 (1992) 107
Holloway, K., P. Moine, J. Delage and R. Sinclair, Structure of an amorphous Ti–Si alloy formed by thermal reaction 134 (1991) 133
Honmyo, K., see Fujiyoshi 137&138 (1991) 935
Hopgood, A.A. and G. Rosman, Effects of thermal history on crystal size distributions and scattering in fluoride glass fibres 140 (1992) 301
Horbach, C., W. Beyer and H. Wagner, Investigation of the precursors of a-Si:H films produced by decomposition of silane on hot tungsten surfaces 137&138 (1991) 661
Hori, A., see Kimura 137&138 (1991) 919
Hori, M., see Fujiyama 135 (1991) 198
Hori, M., see Yonezawa 137&138 (1991) 135
Hosono, H. and Y. Abe, Porous glass-ceramics with skeleton of two-dimensional layered crystal $Ti(HPO_4)_2{\cdot}2H_2O$ 139 (1992) 86
Hosono, H., Y. Sakai and Y. Abe, Pore size control in porous glass-ceramics with skeleton of NASICON-type crystal $CaTi_4(PO_4)_6$ 139 (1992) 90
Howard, B.H., see Chen 139 (1992) 185
Howells, W.S., see Börjesson 131–133 (1991) 53
Hrouz, J., see Ilavský 131–133 (1991) 906
Hsia, C., see Zhang 137&138 (1991) 459
Hsia, S.W., see Kozicki 137&138 (1991) 1341
Hsieh, H.Y., T. Egami, Y. He, S.J. Poon and G.J. Shiflet, Short range ordering in amorphous $Al_{90}Fe_xCe_{10-x}$ 135 (1991) 248
Huang, J. and P.K. Gupta, Temperature dependence of the isostructural heat capacity of a soda lime silicate glass 139 (1992) 239
Huang, J., see Dai 140 (1992) 229
Huang, J.S., J. Sowa and S. Bhattacharya, A study of dielectric relaxation in micellar solutions 131–133 (1991) 335
Huang, J.S., see Richter 131–133 (1991) 604
Huang, J.S., see Ewen 131–133 (1991) 697
Huang, X., see Chen 137&138 (1991) 631
Hubin, J., see Favre 137&138 (1991) 335
Hubin, J., see Sauvain 137&138 (1991) 475
Hulin, D., A. Mourchid, P.M. Fauchet, W.L. Nighan Jr and R. Vanderhaghen, Femtosecond thermalization processes in a-Si:H 137&138 (1991) 527
Hulin, D., see Vanderhaghen 137&138 (1991) 543
Hundhausen, M. and L. Ley, The formation and stability of submicron clusters in silane and argon plasmas 137&138 (1991) 795
Hundhausen, M., see Teuschler 137&138 (1991) 1107
Hunklinger, S., see Höhler 131–133 (1991) 217
Hunklinger, S., see Jacobsen 137&138 (1991) 989
Hunt, A., A percolation treatment of the ac hopping conductivity at low frequencies and dimensionalities 134 (1991) 287
Hutchinson, J.M., M.D. Ingram and A.J. Pappin, Structural recovery in silver iodide containing glasses: illustration of the use of the peak-shift method for the evaluation of the Narayanaswamy parameter x 131–133 (1991) 483
Hyde, P.D., T.E. Evert, M.T. Cicerone and M.D. Ediger, Rotation motion of molecular probes in o-terphenyl and cis-polyisoprene 131–133 (1991) 42
Hyun, K.-S., J. Jang and C. Lee, Persistent photoconductivity decay mechanism in compensated amorphous silicon 137&138 (1991) 283

Ibanez, A., see Armand 139 (1992) 137
Ichikawa, Y., see Sakai 137&138 (1991) 1155
Igarashi, T., see Morimoto 139 (1992) 35
Ihn, Th., A.K. Savchenko, M.E. Raikh and R. Schwarz, Current fluctuations in thin a-Si:H films 137&138 (1991) 523
Ii, H., see Aoki 137&138 (1991) 749
Iida, Y., see Furukawa 137&138 (1991) 665
Iida, Y., H. Nozaki, K. Yano and A. Furukawa, Intrinsic type a-SiC:H hole-blocking layer effects on image lag in an amorphous silicon image sensor 137&138 (1991) 1313
Iijima, S., see Hirao 134 (1991) 233
Iizuka, R., see Nishii 140 (1992) 199
Ilavský, M. and J. Hrouz, Formation, structure and viscoelastic

behaviour of polymer networks 131–133 (1991) 906
Illarramendi, M.A., see Fernández 131–133 (1991) 1230
Imagawa, O., see Shimakawa 137&138 (1991) 915
Imamura, H., see Nakayama 137&138 (1991) 669
Inagawa, I., see Nishii 140 (1992) 199
Inami, S., see Shimakawa 137&138 (1991) 1017
Inglefield, P.T., see Jones 131–133 (1991) 556
Ingram, M., see Angell 131–133 (1991) 1113
Ingram, M.D., see Hutchinson 131–133 (1991) 483
Ingram, M.D., Relaxation processes in ionically conducting glasses 131–133 (1991) 955
Ingram, M.D., G.D. Chryssikos and E.I. Kamitsos, Evidence from vibrational spectroscopy for cluster and tissue pseudophases in glass 131–133 (1991) 1089
Ingram, M.D., see Bunde 131–133 (1991) 1109
Inoue, H., see Yasui 140 (1992) 130
Inoue, H., see Akasaka 140 (1992) 249
Inoue, H., see Nanba 140 (1992) 269
Inoue, T., see Tanaka 131–133 (1991) 781
Ionov, R., D. Nesheva and D. Arsova, Electrical and electrophotographic properties of CdSe/SeTe and CdSe/Se multilayers 137&138 (1991) 1151
Ishida, K., see Shimakawa 137&138 (1991) 915
Ishihara, Y., see Shinozuka 137&138 (1991) 219
Ishiko, T., see Yoshimi 137&138 (1991) 1283
Ishkalov, J., see Marakhonov 137&138 (1991) 817
Isomura, M., N. Hata and S. Wagner, The saturation of light-induced defects in hydrogenated amorphous silicon 137&138 (1991) 223
Ito, H., see Furukawa 137&138 (1991) 665
Ito, Y., see Clarke 140 (1992) 265
Itoh, T., see Nitta 137&138 (1991) 1095
Ivanda, M., K. Furić, O. Gamulin and D. Gracin, 'Boson' peak in Raman spectra of hydrogenated amorphous silicon 137&138 (1991) 103
Ivanitsky, V., see Luksha 136 (1991) 43
Ivanovsky, G.F., see Sleptsov 136 (1991) 53
Iwai, T., see Naito 137&138 (1991) 947
Iwami, M., see Shimizu 137&138 (1991) 391

Jäckle, J., see Condat 131–133 (1991) 369
Jackson, C.L. and G.B. McKenna, The glass transition of organic liquids confined to small pores 131–133 (1991) 221
Jackson, S.D., see Gladden 139 (1992) 47
Jackson, W.B., C.C. Tsai and P.V. Santos, Dependence of hydrogen trapping densities on hydrogen concentration 137&138 (1991) 21
Jackson, W.B., see Santos 137&138 (1991) 203
Jackson, W.B., see Johnson 137&138 (1991) 235
Jacobsen, H., M. Förderer, J. Bischof, G. Kasper and S. Hunklinger, On the nature of structural relaxation in amorphous As_2S_3 137&138 (1991) 989
Jacobsson, P., L. Börjesson and L.M. Torell, When is a polymer a polymer? A light scattering study of crossover from viscous fluid-like behaviour to chain constrained dynamics 131–133 (1991) 104
Jacquelin, J., A number of models for CPA impedances of conductors and for relaxation in non-Debye dielectrics 131–133 (1991) 1080
Jain, H., Ion movement relaxation in inorganic glasses – salient features 131–133 (1991) 961
Jain, H., see Kanert 131–133 (1991) 1001
Jain, H., see Angell 131–133 (1991) 1113
Jain, K.P., see Mavi 137&138 (1991) 1083
James, P.F., see Chen 139 (1992) 185
Jang, J., see Hyun 137&138 (1991) 283
Jang, J., see Lim 137&138 (1991) 705
Jang, J., see Kim 137&138 (1991) 1161
Jánossy, I., see Kósa 137&138 (1991) 981
Jansen, J.B.H., see van Beek 134 (1991) 14
Jaschek, R. and C. Rüssel, Titanium nitride and titanium aluminum nitride coatings on silica glass, prepared by pyrolysis of a polymeric precursor film 135 (1991) 236
Jha, A., Kinetics of glass formation of heavy metal fluoride melts 134 (1991) 157
Jiang, J., X-ray diffraction study of crystallization of the amorphous $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$ alloy 135 (1991) 265
Jin, S., S. Aljishi and L. Ley, Near-surface defects in amorphous semiconductors related to hydrogen incorporation 137&138 (1991) 327
Jin, S., see Aljishi 137&138 (1991) 387
Jing, T., see Perez-Mendez 137&138 (1991) 1291
Jing, Z., see Lucovsky 137&138 (1991) 119
Joarder, R.N., see Bari 136 (1991) 173
Johari, G.P. and M.B.M. Mangion, Phenomenological aspects of relaxations in chemically controlled dipolar diffusion in polymers 131–133 (1991) 921
Johari, G.P., see Cavaillé 131–133 (1991) 935
Johnson, N.M., Hydrogen in crystalline and amorphous silicon 137&138 (1991) 11
Johnson, N.M., see Santos 137&138 (1991) 33
Johnson, N.M., P.V. Santos, C.E. Nebel, W.B. Jackson, R.A. Street, K.S. Stevens and J. Walker, Stability of a-Si:H deposited at high temperatures and hydrogen dilution in a remote hydrogen plasma reactor 137&138 (1991) 235
Jones, A.A., P.T. Inglefield, Y. Liu,

A.K. Roy and B.J. Cauley, A lattice model for dynamics in a mixed polymer–diluent glass 131–133 (1991) 556
Jones, D.I., see Goesman 137&138 (1991) 471
Jones, F.R., see Chen 139 (1992) 185
Jones, J.R., see Gladden 139 (1992) 47
Jones, S.J., see Norberg 137&138 (1991) 71
Jones, S.J., see Wickboldt 137&138 (1991) 83
Julsrud, S., see Aasland 140 (1992) 69
Julsrud, S., see Grande 140 (1992) 73
Jun, J.M., see Kim 137&138 (1991) 1161
Jung, A.-L., see Situ 137&138 (1991) 1009
Juška, G., Properties of free-carrier transport in a-Se and a-Si:H 137&138 (1991) 401
Juška, G., K. Arlauskas, O. Klíma and J. Kočka, Field dependence of the low temperature quantum efficiency, mobility and ($\mu\tau$)-product in a-Si:H 137&138 (1991) 411
Juška, G., see Kočka 137&138 (1991) 427

Kadono, K., H. Kageyama, N. Kamijo and H. Tanaka, Structure of zinc halide-based glasses 140 (1992) 98
Kadono, K., K. Mitani, M. Yamashita, H. Tanaka, Y. Kawamoto, K. Ohno and R. Kanno, Ionic conduction in LiX-based and CuX-based glasses (X=Cl, Br, I) 140 (1992) 103
Kageyama, H., see Kadono 140 (1992) 98
Kalbitzer, S., see Ruttensperger 137&138 (1991) 635
Kambeyanda, S., see Koritala 134 (1991) 277
Kambour, R.P., J.D. Carbeck and W.L. Nachlis, Low temperature motions in, and mechanical properties of, glassy plasticized polymers 131–133 (1991) 563
Kamijo, N., see Kadono 140 (1992) 98
Kamimura, T., see Furukawa 137&138 (1991) 665
Kamitsos, E.I., see Chryssikos 131–133 (1991) 1068
Kamitsos, E.I., see Ingram 131–133 (1991) 1089
Kamitsos, E.I., G.D. Chryssikos, A.P. Patsis and M.A. Karakassides, Lithium conducting borate glasses: evidence for two broad distributions of cation-hosting environments 131–133 (1991) 1092
Kamitsos, E.I., see Koritala 134 (1991) 277
Kamiya, K., see Nakamura 135 (1991) 1
Kamiya, K., see Tanaka 135 (1991) 211
Kamiya, K., see Okasaka 136 (1991) 103
Kanamori, T., see Tick 140 (1992) 275
Kandil, K.M., see Thèye 137&138 (1991) 963
Kaneko, S., see Yoshida 137&138 (1991) 1287
Kanemitsu, Y., see Nakayoshi 137&138 (1991) 1005
Kanert, O., J. Steinert, H. Jain and K.L. Ngai, Nuclear spin relaxation and atomic motion in inorganic glasses 131–133 (1991) 1001
Kanert, O., see Strom 131–133 (1991) 1011
Kanetakis, J. and G. Fytas, Relaxation processes in a homogeneous diblock copolymer at low and high temperatures by means of dynamic light scattering 131–133 (1991) 823
Kanicki, J., W.L. Warren, C.H. Seager, M.S. Crowder and P.M. Lenahan, Microscopic origin of the light-induced defects in hydrogenated nitrogen-rich amorphous silicon nitride films 137&138 (1991) 291
Kanicki, J., see Zelikson 137&138 (1991) 455
Kanicki, J., see Godet 137&138 (1991) 1051
Kanno, R., see Kadono 140 (1992) 103
Kaplan, S.N., see Perez-Mendez 137&138 (1991) 1291
Karabay, I., see Uğur 137&138 (1991) 761
Karakassides, M.A., see Kamitsos 131–133 (1991) 1092
Karim, A., see Felcher 131–133 (1991) 703
Karmakar, B., G. De, D. Kundu and D. Ganguli, Silica microspheres from the system tetraethyl orthosilicate–acetic acid–water 135 (1991) 29
Karthikeyan, A., see Satyanarayana 136 (1991) 219
Kasap, S.O., see Polischuk 137&138 (1991) 943
Kasap, S.O., V. Aiyah, B. Polischuk, Z. Liang and A. Bekirov, Photoinduced discharge characteristics of xerographic photoreceptors: theory and experiment 137&138 (1991) 1329
Kasap, S.O., see Aiyah 137&138 (1991) 1337
Kasper, G., see Höhler 131–133 (1991) 217
Kasper, G., see Jacobsen 137&138 (1991) 989
Kasper, W., R. Plättner and G. Eichmeier, Properties of GeH_4 (SiH_4) plasmas for deposition of device-quality a-Ge:H (a-Si:H) material 137&138 (1991) 799
Katada, M., see Anma 135 (1991) 79
Katagiri, T. and T. Maekawa, Influence of solvents on the structure of SiO_2 gel from hydrolysis of tetramethylorthosilicate 134 (1991) 183
Katayama, S., see Sekine 134 (1991) 199
Katiyar, M., see Feng 137&138 (1991) 331
Kato, C., see Sugahara 139 (1992) 25
Katsumoto, M., see Matsuyama 135 (1991) 22
Katsuno, M., see Futagi 137&138 (1991) 1271
Katsuyama, T. and H. Matsumura, Glass-forming regions of ternary Ge–Te–Al and Ge–Te–Sb chalcogenide glasses 139 (1992) 177
Kawamoto, Y., see Kadono 140 (1992) 103
Kawamura, C., I. Shimizu and J. Hanna, p-and n-type doping in

spontaneous chemical deposition 137&138 (1991) 697
Kawamura, K., see Futagi 137&138 (1991) 1271
Kawamura, T., see Nakayama 137&138 (1991) 669
Kawamura, T., see Nakayama 137&138 (1991) 1279
Kawazoe, H., see Anma 135 (1991) 79
Kazaoui, S., J. Ravez and J.L. Miane, Correlation between dielectric relaxation and cation size in ceramics with composition related to $BaTiO_3$ 131–133 (1991) 1202
Ke, N., see Peng 137&138 (1991) 383
Keddie, J.L., see Mehrotra 136 (1991) 97
Kemp, M., see Wang 137&138 (1991) 599
Kerner, R., A model for formation and structural properties of alkali borate glasses 135 (1991) 155
Kessler, F., H.-D. Mohring and G.H. Bauer, A novel plasma jet for GeH_x-radical generation and a-Ge:H film deposition 137&138 (1991) 745
Khait, Yu.L., R. Weil, R. Beserman, W. Beyer and H. Wagner, Novel kinetic electron-related model for hydrogen desorption from a-Si:H 137&138 (1991) 45
Khait, Yu.L., A. Silverman, R. Weil and J. Adler, Large picosecond energy fluctuations of single atoms in a-Si revealed by molecular dynamics 137&138 (1991) 145
Kieffer, J., see Boulard 140 (1992) 350
Kim, S.C., see Kim 137&138 (1991) 1161
Kim, T.G., S.C. Kim, J.M. Jun, K.C. Park, S.-O. Koh, M.-K. Han and J. Jang, Amorphous silicon double stacked solar cell using low band gap a-Si bottom cell 137&138 (1991) 1161
Kimura, K., T. Tada, A. Hori and A. Furukawa, Optical absorption edge and photoluminescence spectra in amorphous and crystalline boron-rich solids 137&138 (1991) 919
Kind, R., see Pirc 131–133 (1991) 92
Kingsbury, D.W., see Chamberlin 131–133 (1991) 192
Kishi, Y., see Hishikawa 137&138 (1991) 717
Kishimoto, S., see Hirao 135 (1991) 90
Kishimoto, S., see Hirao 139 (1992) 151
Kitamura, K., see Futagi 137&138 (1991) 1271
Kitamura, N., see Matsuoka 135 (1991) 86
Kitaoka, T., see Matsuoka 135 (1991) 86
Kivelson, D., M. Greenfield and S. Gomperts, Supercooled liquids: a new look at selected relaxation phenomena 131–133 (1991) 327
Kleider, J.P., C. Longeaud and O. Glodt, Study of the density of states of hydrogenated amorphous silicon from time-of-flight and modulated photocurrent experiments 137&138 (1991) 447
Klein, J., Development and relaxation of the interface in binary polymer mixtures 131–133 (1991) 598
Klein, M.W., see Nielaba 131–133 (1991) 225
Klein, M.W., A solvable microscopic model for very dilute quadrupole glasses 131–133 (1991) 313
Klíma, O., see Juška 137&138 (1991) 411
Klíma, O., see Kočka 137&138 (1991) 427
Klinger, M., Theory of negative-U 'effects' in amorphous (glassy) semiconductors 137&138 (1991) 939
Kniffler, N., see Rübel 137&138 (1991) 1169
Knorr, K., see Loidl 131–133 (1991) 269
Kob, W. and R. Schilling, Ergodicity, non-exponential relaxation and cooling processes for a simple 1-D 'glass' model 131–133 (1991) 248
Kobayashi, M., see Hanada 135 (1991) 227
Koch, F., see Hartmann 137&138 (1991) 1067
Kočka, J., see Chen 137&138 (1991) 251
Kočka, J., J. Stuchlík, M. Stutzmann, L. Chen and J. Tauc, Electronic levels of phosphorus donors in a-Si:H 137&138 (1991) 379
Kočka, J., see Juška 137&138 (1991) 411
Kočka, J., O. Klíma, G. Juška, M. Hoheisel and R. Plättner, SCLC transients in a-Si:H – new features and possibilities 137&138 (1991) 427
Kočka, J., see Hoheisel 137&138 (1991) 615
Kogo, T., M. Onishi, S. Hirai, Y. Chigusa, K. Nakazato, M. Shigematsu, S. Suzuki and M. Watanabe, A study of the control of Nd^{3+} energy levels in fluorozirconate glasses 140 (1992) 233
Koh, S.-O., see Kim 137&138 (1991) 1161
Köhler, S., see Hamed 137&138 (1991) 287
Koide, M., see Matusita 140 (1992) 119
Koide, M., see Matusita 140 (1992) 141
Koinuma, H., A. Takano and M. Sumiya, Continuous production of a-Si:H/a-SiN:H superlattice by pulsed plasma and photo CVD 137&138 (1991) 1127
Kolinko, S., see Luksha 136 (1991) 43
Kolobov, A.V., Lateral diffusion of silver in vitreous chalcogenide films 137&138 (1991) 1027
Kolodzey, J., see Wang 137&138 (1991) 1143
Komatsu, T., see Sato 134 (1991) 270
Komatsu, T., H. Tawarayama, H. Mohri and K. Matusita, Properties and crystallization behaviors of TeO_2–$LiNbO_3$ glasses 135 (1991) 105
Komatsu, T., see Matusita 140 (1992) 119

Komatsu, T., see Matusita 140 (1992) 141
Konak, C., see Pajevic 131–133 (1991) 630
Kondo, M. and K. Morigaki, The role of hydrogen clusters in the Staebler–Wronski effect of amorphous silicon as elucidated by optically detected electron nuclear double resonance 137&138 (1991) 247
Kondo, M., W. Utsumi, T. Yagi and K. Morigaki, Optically detected magnetic resonance measurements for amorphous silicon treated by hydrostatic pressure at 5 GPa 137&138 (1991) 275
Kondo, M., see Li 137&138 (1991) 1115
Kondo, M., see Yamaguchi 137&138 (1991) 1305
Kondrashov, P.E., see Sleptsov 136 (1991) 53
Könenkamp, R. and E. Wild, Structural relaxation of a-Si:H after photon, electron beam and thermal treatment: comparison and discussion of recent models 137&138 (1991) 239
Könenkamp, R., S. Muramatsu, S. Matsubara and T. Shimada, The mobility–lifetime product in depleted a-Si:H diodes 137&138 (1991) 1173
Könenkamp, R., Determination of transport parameters in a-Si:H junction regions 137&138 (1991) 1177
Kong, G., see Zhang 137&138 (1991) 459
Kong, G., see Liao 137&138 (1991) 1091
Kontopoulos, A.J., see Tsangaris 131–133 (1991) 1164
Konwitschny, R., see Vepřek 137&138 (1991) 779
Koo, Y.C., G.C. Weatherly, S.J. Thorpe, K.T. Aust and S. Zukotynski, The effects of annealing on the formation and stability of the microcrystalline phase in neutron irradiated amorphous Si:H thin films 134 (1991) 226
Kopetzky, W.J., H. Pfleiderer and R. Schwarz, Trace of an interface layer between buffer and i-layer in the spectral response of a-SiC:H/a-Si:H solar cells 137&138 (1991) 1201
Koritala, S., K. Farooqui, M. Affatigato, S. Feller, S. Kambeyanda, S. Ghosh, E.I. Kamitsos, G.D. Chryssikos and A.P. Patsis, The glass transition temperature of lithium–alkali borates 134 (1991) 277
Korolkov, V.P., see Gotchiyaev 137&138 (1991) 1297
Koropecki, R.R., L.R. Tessler, J.A. Sanjurjo and F. Alvarez, Photoinduced effects in diamondlike hydrogenated amorphous carbon films 137&138 (1991) 835
Kortov, V.S., see Arbusov 134 (1991) 208
Kósa, T. and I. Jánossy, On the kinetics of the reorientation of light-induced anisotropy in a-$GeSe_2$ films 137&138 (1991) 981
Kosarev, A.I., A.G. Kovrov, R.A.G. Gibson, P.G. LeComber, T.A. Sidorova and A.J. Vinogradov, The effect of structure on the electronic properties of a-Si:H 137&138 (1991) 371
Kosarev, A.I., see Trofimov 137&138 (1991) 483
Kotaka, T., see Adachi 131–133 (1991) 723
Kotaka, T., see Shikata 131–133 (1991) 831
Kotkata, M.F., see Thèye 137&138 (1991) 963
Kotschy, J., see Hoheisel 137&138 (1991) 1181
Koudelka, L., M. Pisárčik, L.N. Blinov and M.S. Gutenev, Vibrational spectra and structure of As–P–S glasses 134 (1991) 86
Koughia, C.V. and E.I. Terukov, The nature of photoconductivity decay spectral dependence in a-Si:H 137&138 (1991) 603
Kougia, K., see Koynov 137&138 (1991) 685
Koulmann, J.J., F. Ringeisen, M. Alaoui and D. Bolmont, Comparative photoemission study of low pressure hydrogen, silane and disilane adsorption on amorphized silicon 135 (1991) 243
Kounavis, P. and E. Mytilineou, Gap-state distribution in $Ge_{25}Se_{75-x}Bi_x$ sputtered films by phase shift 137&138 (1991) 955
Kouzuma, S., see Hishikawa 137&138 (1991) 717
Kovrov, A.G., see Kosarev 137&138 (1991) 371
Kovrov, A.G., see Trofimov 137&138 (1991) 483
Koynov, S., Kinetic model of silicon–hydrogen network formation 137&138 (1991) 649
Koynov, S., A. Toneva and K. Kougia, Influence of UV irradiation on a-Si:H film growth 137&138 (1991) 685
Kozicki, M.N., S.W. Hsia, A.E. Owen and P.J.S. Ewen, PASS – a chalcogenide-based lithography scheme for I.C. fabrication 137&138 (1991) 1341
Kozlowski, F., V. Petrova-Koch, A. Kux, W. Stadler, A. Fleischmann and H. Sigmund, Structural instability of Si-nanocrystals in a $(SiH_2)_n$ matrix 137&138 (1991) 91
Kranbuehl, D.E., Continuous dielectric measurement of polymerizing systems 131–133 (1991) 930
Kreitzman, S.R., see Davis 137&138 (1991) 17
Kremer, F., D. Boese and L. Fetters, Molecular dynamics in linear and multi-armed star polymers of cis-polyisoprene as studied by broadband dielectric spectroscopy 131–133 (1991) 728

Kremer, K., see Paul 131–133 (1991) 650
Kristiansen, M., see Gangopadhyay 137&138 (1991) 859
Kronmüller, H., see Rivas 131–133 (1991) 1235
Krötz, G. and G. Müller, Structural equilibration in intrinsic, single-doped and compensated TFTs – experiments and calculations 137&138 (1991) 163
Krötz, G., see Ruttensperger 137&138 (1991) 635
Krötz, G., see Hartmann 137&138 (1991) 1067
Kshirsagar, S.T., see Dusane 137&138 (1991) 115
Kshirsagar, S.T., see Bhusari 137&138 (1991) 689
Kubota, H., see Fujiyoshi 137&138 (1991) 935
Kubový, M., see Vlček 137&138 (1991) 1035
Kugler, S. and G. Náray-Szabó, Weak bonds and atomic charge distribution in hydrogenated amorphous silicon 137&138 (1991) 295
Kugler, S., see László 137&138 (1991) 831
Kumar Mendiratta, S., M.A. Valente and J.A.A.J. Perenboom, Magnetization behaviour of Gd lead borate and Fe lead borate glasses under high magnetic field (20 T) 134 (1991) 100
Kumeda, M., see Yan 137&138 (1991) 199
Kumeda, M., see Shimizu 137&138 (1991) 391
Kumeda, M., N. Awaki, H. Yan, A. Morimoto and T. Shimizu, ESR in silicon nitride films prepared using nitrogen isotope 137&138 (1991) 887
Kumeda, M., see Masuda 137&138 (1991) 985
Kundu, D., see Karmakar 135 (1991) 29
Kunst, M., see Neitzert 137&138 (1991) 487
Kurnia, D., R.P. Barclay and J.M. Boud, Investigation of a-Si:H thin films using the constant photocurrent method 137&138 (1991) 375
Kuroda, K., see Sugahara 139 (1992) 25
Kurz, H., see Esser 137&138 (1991) 535
Kusakabe, S., see Nonomura 137&138 (1991) 1139
Kusian, W., H. Pfleiderer and E. Günzel, Electron and hole $\mu\tau$ products of slightly doped a-Ge:H films 137&138 (1991) 813
Kuwano, Y., see Hishikawa 137&138 (1991) 717
Kux, A., see Kozlowski 137&138 (1991) 91
Kuzin, A.A., see Sleptsov 136 (1991) 53

Lagarde, P., see Udron 137&138 (1991) 131
Lakshman, S.V.J., see Subramanyam 139 (1992) 67
Lamp, D., see Davis 137&138 (1991) 17
Landry, C.J.T., see Schrag 131–133 (1991) 537
Langley, N.R., Effects of entanglements on elastic modulus of elastomer networks after terminal relaxation 131–133 (1991) 894
Larchev, V.I., see Popova 135 (1991) 255
Largeteau, A., J. Ravez and J.L. Miane, Space charge relaxation in ferrite ceramics with grain boundary barrier layers 131–133 (1991) 1224
Lasjaunias, J.C., see Biljaković 131–133 (1991) 1254
László, I. and S. Kugler, Self-doping and hopping conductivity in amorphous carbon 137&138 (1991) 831
Léaustic, A. and R.E. Riman, Uniform hydrolysis of metal alkoxides via homogeneous generation of water 135 (1991) 259
Lebaudy, Ph., see Vautier 131–133 (1991) 520
Lebaudy, Ph., see Saiter 131–133 (1991) 524
Leblanc, F., J. Perrin and E. Cornil, Optical absorption, light trapping and power dissipation in a-Si:H solar cells analyzed by photothermal deflection spectroscopy 137&138 (1991) 1165
Lebullenger, R., see Poulain 140 (1992) 57
Lechner, P., see Rübel 137&138 (1991) 1169
LeComber, P.G., see Kosarev 137&138 (1991) 371
LeComber, P.G., see Trofimov 137&138 (1991) 483
LeComber, P.G., see Hajto 137&138 (1991) 499
LeComber, P.G., see Shaw 137&138 (1991) 1233
LeComber, P.G., see Snell 137&138 (1991) 1257
Lee, A., see McKenna 131–133 (1991) 497
Lee, C., see Hyun 137&138 (1991) 283
Lee, C., W.A. Turner and W. Paul, True position of dangling bonds in the gap of undoped hydrogenated amorphous silicon 137&138 (1991) 367
Lee, C., see Lim 137&138 (1991) 705
Lee, D.R., C.H. Bjorkman and G. Lucovsky, Effective electron affinities in doped a-Si:H and μc-Si films as determined from studies of MOS capacitors 137&138 (1991) 1059
Lee, G.F., see Hartmann 131–133 (1991) 887
Lee, J.-K., see Wraback 137&138 (1991) 531
Lee, S., see Solin 131–133 (1991) 1213
Leen, T.M. and J.D. Cohen, Observation of configuration switching of the D center in a-Si:H 137&138 (1991) 319
Lembke, U., see Bartels 136 (1991) 181
Lemon, R., see Long 137&138 (1991) 419
Lenahan, P.M., see Warren 136 (1991) 151
Lenahan, P.M., see Kanicki 137&138 (1991) 291
Levin, E.I., S. Marianer, B.I. Shklovskii and H. Fritzsche, Luminescence lifetime distribution in amorphous semiconductors 137&138 (1991) 559
Lewis, A.G., see Hack 137&138 (1991) 1229
Lewis, J.C., see Liu 131–133 (1991) 492
Ley, L., see Jin 137&138 (1991) 327
Ley, L., see Aljishi 137&138 (1991) 387
Ley, L., see Hundhausen 137&138 (1991) 795

Ley, L., see Teuschler 137&138 (1991) 1107
Li, B.Y., see Wang 131–133 (1991) 870
Li, C.F., see Zhong 134 (1991) 141
Li, H., see Zhang 140 (1992) 225
Li, P., see Peng 137&138 (1991) 383
Li, R., H. Wang and F. Gan, ESR study of temperature dependence of colour centers in γ-ray irradiated fluoride glasses 140 (1992) 194
Li, R., see Deng 140 (1992) 307
Li, Y., M. Kondo, M. Yamaguchi and K. Morigaki, Quantized structure in the photoinduced absorption spectra of band-edge modulated a-$Si_{1-x}N_x$:H films 137&138 (1991) 1115
Li, Y.M., I. An, H.V. Nguyen, C.R. Wronski and R.W. Collins, Real time spectroscopic ellipsometry determination of the evolution of amorphous semiconductor optical functions, bandgap and microstructure 137&138 (1991) 787
Li, Z., see Chen 137&138 (1991) 631
Liang, Z. and J. Cheng, Formation and vibration spectra of HgI_2–Ag_2S–As_2S_3 and HgS–Ag_2S–As_2S_3 system glasses 136 (1991) 205
Liang, Z., see Kasap 137&138 (1991) 1329
Liao, X., see Zhang 137&138 (1991) 459
Liao, X., G. Kong, Y.X. Wang, H.D. Zheng and Q. Zhang, Photoemission study on the SnO_2/P a-SiC_x:H interface 137&138 (1991) 1091
Liao, X.B., see Zhong 134 (1991) 141
Lichti, R.L., see Davis 137&138 (1991) 17
Liedtke, S., see Stachowitz 137&138 (1991) 551
Liedtke, S. and W. Fuhs, Optically detected magnetic resonance (ODMR) in a-Si:H 137&138 (1991) 583
Ligonzo, T., see Murri 139 (1992) 60
Lim, Y.-J., J. Jang and C. Lee, Low hydrogen content a-Si:H produced by layer by layer deposition technique 137&138 (1991) 705
Lin, Q., see Lin 137&138 (1991) 1249
Lin, X., Q. Lin, C. Yue, D. Wang and Z. Chen, A new type of surface Schottky gate a-Si:H static induction transistor 137&138 (1991) 1249
Linares, A., C. Del Rio and J.L. Acosta, Effect of compatibility on dielectric relaxation and on the microstructure of semicrystalline polymer blends 131–133 (1991) 1149
Lips, K. and W. Fuhs, Spin-dependent transport and recombination in a-Si:H 137&138 (1991) 255
Lira, C.T., see Rangarajan 136 (1991) 111
Litovitz, T.A., see Montrose 131–133 (1991) 177
Liu, E.Z. and W.E. Spear, An investigation of the phosphorous doping mechanism in a-Si by sweep-out experiments 137&138 (1991) 167
Liu, H.N., see Wang 137&138 (1991) 511
Liu, J., see Peng 137&138 (1991) 383
Liu, J., B. Yan, L. Shi, X. Geng, Z. Sun and W. Xu, Calculation of the effective conductivity of μc-Si:H using three-phase model 137&138 (1991) 507
Liu, J., B. Yan, L. Shi, X. Geng, Z. Sun and W. Xu, Evidence of charge storage in a-Si:H p–i–n diode and lifetime of carriers 139 (1992) 74
Liu, J., see Zhang 140 (1992) 225
Liu, L.B., A.F. Yee, J.C. Lewis and D.W. Gidley, Structural changes in glassy polycarbonate induced by cyclic stresses 131–133 (1991) 492
Liu, R., see Zou 137&138 (1991) 1245
Liu, Y., see Jones 131–133 (1991) 556
Liu, Xiangna, Zhao, Zhouyin, Wang, Ying and Li, Wenkai, The built-in fields and interfacial properties of a-Si:H/a-SiN_x:H multilayers studied by electroabsorption spectroscopy 137&138 (1991) 1131
Li, Wenkai, see Liu, Xiangna 137&138 (1991) 1131
Ljungdahl, G., J. Fellman and C.G. Ribbing, Infrared optical constants of mineral wool raw materials 136 (1991) 137
Lodge, T.P., see Schrag 131–133 (1991) 537
Lodge, T.P., see Amelar 131–133 (1991) 551
Lodge, T.P. and N.A. Rotstein, Tracer diffusion of linear and star polymers in entangled solutions and gels 131–133 (1991) 671
Lodge, T.P., see Binder 131–133 (1991) 742
Loidl, A., K. Knorr, J. Hessinger, R. Böhmer, I. Fehst and U.T. Höchli, Relaxation dynamics in orientational glasses 131–133 (1991) 269
Long, A.R., M. Mostefa and R. Lemon, Scaling of the photo-induced frequency dependent loss in amorphous silicon at low temperatures 137&138 (1991) 419
Longeaud, C., see Kleider 137&138 (1991) 447
López Cabido, J.I., see López-Quintela 131–133 (1991) 229
López-Quintela, M.A., J. Rivas, D. Losada and J.I. López Cabido, Strong low-frequency electrical dispersion in microemulsions 131–133 (1991) 229
López-Quintela, M.A., see Rivas 131–133 (1991) 1235

López-Villegas, J.M., see Bertran 137&138 (1991) 895
Lorenzo, V., R. Benavente, E. Pérez, A. Bello and J.M. Pereña, Microhardness dependence on the diluent content for an amorphous copolyterephthalate 131–133 (1991) 584
Losada, D., see López-Quintela 131–133 (1991) 229
Losch, W., see Pasa 137&138 (1991) 1087
Losurdo, M., see Bruno 137&138 (1991) 753
Loukakis, G., see Anagnostopoulou-Konsta 131–133 (1991) 1182
Lu, K.E., see Tick 140 (1992) 275
Lu, Y.W., see Situ 137&138 (1991) 1009
Lucas, J., see Fernández 131–133 (1991) 1230
Lucas, J., see Ma 135 (1991) 49
Lucas, J., see Adam 140 (1992) 31
Lucas, J., see Zhang 140 (1992) 47
Lucas, J., see Ma 140 (1992) 209
Lucas, J., see Fonteneau 140 (1992) 340
Luciani, L., see Fortunato 137&138 (1991) 1225
Lucovsky, G., Z. Jing and J.L. Whitten, Chemical induction effects: O-incorporation in, and substitution doping of a-Si:H 137&138 (1991) 119
Lucovsky, G., see Davidson 137&138 (1991) 307
Lucovsky, G., see Esser 137&138 (1991) 535
Lucovsky, G., see Williams 137&138 (1991) 737
Lucovsky, G., see Wang 137&138 (1991) 741
Lucovsky, G., see Lee 137&138 (1991) 1059
Luksha, O., V. Ivanitsky and S. Kolinko, Structural modification of As–Se amorphous films 136 (1991) 43
Lyubin, V.M. and V.K. Tikhomirov, Novel photo-induced effects in chalcogenide glasses 135 (1991) . 37
Lyubin, V.M. and V.K. Tikhomirov, Intrinsic and photoinduced elliptical dichroism and birefringence in glassy semiconductors 137&138 (1991) 993

Ma, H.L., X.H. Zhang and J. Lucas, 'High T_g' tellurium selenium halide glasses 135 (1991) 49
Ma, H.L., see Zhang 140 (1992) 47
Ma, H.L., X.H. Zhang, J. Lucas and C.T. Moynihan, Relaxation near room temperature in tellurium chalcohalide glasses 140 (1992) 209
Maass, P., see Bunde 131–133 (1991) 1022
Maass, P., see Bunde 131–133 (1991) 1109
MacFarlane, D.R., see Uhlherr 140 (1992) 134
MacFarlane, D.R., see Moore 140 (1992) 159
MacFarlane, D.R., see Zhou 140 (1992) 215
MacFarlane, D.R., see Zhou 140 (1992) 297
MacFarlane, D.R., see Warne 140 (1992) 314
MacFarlane, D.R., see Warne 140 (1992) 319
MacFarlane, D.R., P.J. Mineely and P.J. Newman, Synthesis of zirconium tetrafluoride using ammonium bifluoride melts 140 (1992) 335
Maeda, K. and I. Umezu, Atomic microstructure and electronic properties of a-SiN_x:H deposited by PECVD 137&138 (1991) 883
Maekawa, T., see Katagiri 134 (1991) 183
Magafas, L., N. Georgoulas, D. Girginoudi and A. Thanailakis, Structural and optical properties of a-SiC:H thin films 139 (1992) 146
Mahadevan, S., see Giridhar 134 (1991) 94
Mahan, A.H., Y. Chen, D.L. Williamson and G.D. Mooney, The structure of a-Si:H by small angle X-ray scattering 137&138 (1991) 65
Mahan, A.H., see Vaněček 137&138 (1991) 191
Mahan, A.H., B.P. Nelson, S.J. Salamon and R.S. Crandall, Deposition of device quality, low H content a-Si:H by the hot wire technique 137&138 (1991) 657
Mahanti, S.D., see Solin 131–133 (1991) 1213
Main, C., see Marshall 137&138 (1991) 343
Main, C., see Brüggemann 137&138 (1991) 359
Main, C., J. Berkin, R. Brüggemann and J.M. Marshall, Excess carrier dispersion in conventionally dispersive amorphous semiconductors and the mobility–lifetime anomaly in a-Si:H 137&138 (1991) 439
Main, C., C.P. Webb, R. Brüggemann and S. Reynolds, Modulated and transient photoconductivity in a-As_2Se_3 137&138 (1991) 951
Maley, N., see Feng 137&138 (1991) 331
Maley, N., see Myers 137&138 (1991) 783
Malugani, J.P., see Dianoux 131–133 (1991) 973
Man, V.F., see Schrag 131–133 (1991) 537
Mangin, Ph., see Vergnat 137&138 (1991) 907
Mangion, M.B.M., see Johari 131–133 (1991) 921
Manodoro, P., see Bruno 137&138 (1991) 753
Marakhonov, J., see Marakhonov 137&138 (1991) 817
Marakhonov, V., N. Rogachev, J. Ishkalov, J. Marakhonov, E.I. Terukov and V. Chelnokov, Electrical and optical properties of a-Si:H, a-SiGe:H and a-SiSn:H deposited by magnetron assisted silane decomposition 137&138 (1991) 817
Marchal, G., see Vergnat 137&138 (1991) 907
Marcus, M.A. and A. Polman, Local structure around Er in silica and sodium silicate glasses 136 (1991) 260
Marczuch, K., see Samek 140 (1992) 243
Marianer, S., see Levin 137&138 (1991) 559

Mariucci, L., see Fanfoni 137&138 (1991) 1079
Mariucci, L., see Fortunato 137&138 (1991) 1225
Mariucci, L., see Pecora 137&138 (1991) 1253
Marotta, A., see Branda 134 (1991) 123
Marques, F., see Wickboldt 137&138 (1991) 83
Marrelli, L., see Giona 131–133 (1991) 71
Marshall, J.M. and A.R. Hepburn, Excess carrier and structural relaxation phenomena in amorphous semiconductor materials and devices 131–133 (1991) 1250
Marshall, J.M., W. Pickin, A.R. Hepburn, C. Main and R. Brüggemann, Evaluation of the constant photocurrent method for determining the energy distribution of localised states in disordered semiconductors 137&138 (1991) 343
Marshall, J.M., see Main 137&138 (1991) 439
Marshall, J.M., see Pickin 137&138 (1991) 575
Marshall, J.M., A.R. Hepburn, M. Woodward and S. Usala, Study of amorphous silicon high voltage transistors using novel electron microscopy techniques 137&138 (1991) 1237
Marsmann, H.C., see Damrau 135 (1991) 15
Martin, S.M. and J.A. Sills, ^{29}Si and ^{27}Al MASS-NMR studies of $Li_2S+Al_2S_3+SiS_2$ glasses 135 (1991) 171
Martin, S.W., H.K. Patel, F. Borsa and D. Torgeson, Multiple frequency spin–lattice relaxation time and ionic conductivity measurements of Li_2S+SiS_2 glasses from 1 Hz to 40 MHz 131–133 (1991) 1041
Martin, S.W., see Trunnell 139 (1992) 257
Martínez, D., see Rivas 131–133 (1991) 1235
Martins, R., see Vieira 137&138 (1991) 479
Martins, R., I. Ferreira, N. Carvalho and L. Guimarães, Engineering of plasma deposition systems used for producing large area a-Si:H devices 137&138 (1991) 757
Marugán, M.M., see Pereña 131–133 (1991) 891
Mashimo, S. and R. Nozaki, Relaxation of isolated dipoles in polymer chain 131–133 (1991) 1158
Masuda, A., M. Kumeda, A. Morimoto and T. Shimizu, Light-induced ESR and disappearance of photodarkening in amorphous Ge–S films alloyed with lead 137&138 (1991) 985
Masumoto, Y., see Nakayoshi 137&138 (1991) 1005
Matecki, M. and M. Poulain, Composition adjustments in cadmium fluorochloride glasses 140 (1992) 82
Matsubara, S., see Könenkamp 137&138 (1991) 1173
Matsuda, A., see McElheny 137&138 (1991) 243
Matsuda, A., see Toyoshima 137&138 (1991) 765
Matsumoto, M., see Shimizu 137&138 (1991) 391
Matsumoto, T., see Fujiyoshi 137&138 (1991) 935
Matsumura, H., see Katsuyama 139 (1992) 177
Matsuoka, J., N. Kitamura, S. Fujinaga, T. Kitaoka and H. Yamashita, Temperature dependence of refractive index of SiO_2 glass 135 (1991) 86
Matsuoka, S. and X. Quan, Intermolecular cooperativity in dielectric and viscoelastic relaxation 131–133 (1991) 293
Matsushita, T., see Naito 137&138 (1991) 947
Matsuyama, I., S. Satoh, M. Katsumoto and K. Susa, Raman and GC–MS study of the initial stage of the hydrolysis of tetramethoxysilane in acid and base catalyzed sol–gel processes 135 (1991) 22
Mattacchini, A., see Fortunato 137&138 (1991) 1225
Matusita, K., see Sato 134 (1991) 270
Matusita, K., see Komatsu 135 (1991) 105
Matusita, K., M. Koide and T. Komatsu, Viscosity of fluoride glasses at glass transtion temperature 140 (1992) 119
Matusita, K., M. Koide and T. Komatsu, Viscous flow mechanism of fluoride glasses over a wide temperature range 140 (1992) 141
Mavi, H.S., K.P. Jain, A.K. Shukla, S.C. Abbi and R. Beserman, Role of surface states in the stress sharing dynamics of laser produced μ-c/a-Si:H composite films 137&138 (1991) 1083
Mavrin, B.N., see Popova 135 (1991) 255
Mayer, E., see Hofer 139 (1992) 78
Mazenko, G.F., The glass transition from the fluid side 131–133 (1991) 120
Mazur, S., Models for relaxation in glass-forming liquids based on sequentially correlated displacements 131–133 (1991) 348
McDonagh, C., see Devlin 135 (1991) 8
McElheny, P.J., H. Okushi, S. Yamasaki and A. Matsuda, Evidence for the dominance of charged dangling bond defects in the photodegradation of hydrogenated amorphous silicon 137&138 (1991) 243
McGilp, J.F., see Devlin 135 (1991) 8
McGrath, K.J., see Merzbacher 136 (1991) 249
McKenna, G.B., see Jackson 131–133 (1991) 221
McKenna, G.B., M.M. Santore, A. Lee and R. S. Duran, Aging in glasses subjected to large stresses and deformations 131–133 (1991) 497
McKenna, G.B. and C.A. Angell,

Discussion Session – The phenomenology and models of the kinetics of volume and enthalpy in the glass transition range 131–133 (1991) 528
McKinnon, A.W., S. Baker and M.E. Welland, Scanning tunnelling microscopy of plasma- and photo-enhanced chemical vapour deposited hydrogenated amorphous silicon 139 (1992) 157
McMahon, T.J., see Wyrsch 137&138 (1991) 347
McNeil, L.E., see Peters 139 (1992) 231
Meaudre, M., see Meaudre 137&138 (1991) 171
Meaudre, R., M. Meaudre, P. Roca i Cabarrocas, S. Tanidi, Y. Bouizem and M.-L. Thèye, Absence of thermal quenching effects in undoped amorphous silicon deposited by the PECVD of He-diluted silane 137&138 (1991) 171
Mehrotra, R.C., see Rai 134 (1991) 23
Mehrotra, V., J.L. Keddie, J.M. Miller and E.P. Giannelis, Electrically conducting glasses: incorporation of polypyrrole in a porous SiO_2 matrix 136 (1991) 97
Meier, G., see Fischer 131–133 (1991) 134
Meier, G., B. Gerharz and D. Boese, Dynamical processes in organic glass-forming van der Waals liquids 131–133 (1991) 144
Meier, G., see Momper 131–133 (1991) 624
Meier, G., see Borsali 131–133 (1991) 816
Meissner, D., see Rohwer 137&138 (1991) 843
Mell, H., see Rath 137&138 (1991) 279
Mell, H., see Tzanetakis 137&138 (1991) 463
Mell, H., see Nickel 137&138 (1991) 1221
Melman, H. and S.H. Garofalini, Microstructural evaluation of simulated sodium silicate glasses 134 (1991) 107
Mendiratta, S.K. and L.C. Costa, Dielectric relaxation in glasses containing different relaxing species 131–133 (1991) 990
Meneghini, C., S. Pascarelli, F. Boscherini, S. Mobilio and F. Evangelisti, Structural study of a-$Si_{1-x}C_x$:H by EXAFS and X-ray scattering 137&138 (1991) 75
Mennella, R., see Montrose 131–133 (1991) 177
Merchak, P.A., see Schrag 131–133 (1991) 537
Mercier, R., see Dianoux 131–133 (1991) 973
Merzbacher, C.I., see Dutt 135 (1991) 122
Merzbacher, C.I., K.J. McGrath and P.L. Higby, ^{29}Si NMR and infrared reflectance spectroscopy of low-silica calcium aluminosilicate glasses 136 (1991) 249
Messaddeq, Y. and M. Poulain, Stabilizing effect of aluminium, yttrium and zirconium in divalent fluoride glasses 140 (1992) 41
Messaddeq, Y. and M. Poulain, Influence of sulphate impurities on the IR transmission of InF_3-based glasses 140 (1992) 77
Meunier, M., see Beaudoin 137&138 (1991) 1099
Meunier, M., see Arsenault 137&138 (1991) 1111
Mezdrogina, M.M., see Sokolov 137&138 (1991) 99
Mezei, F., Scaling behaviour of structural relaxation near the glass transition: a critical analysis 131–133 (1991) 317
Miane, J.L., see Kazaoui 131–133 (1991) 1202
Miane, J.L., see Largeteau 131–133 (1991) 1224
Miller, J.M., see Mehrotra 136 (1991) 97
Mimura, H., see Futagi 137&138 (1991) 1271
Mineely, P.J., see MacFarlane 140 (1992) 335
Minomura, S., see Hamanaka 137&138 (1991) 977
Mitachi, S. and P.A. Tick, OH absorption in CLAP glass systems 135 (1991) 189
Mitachi, S., see Tick 140 (1992) 275
Mitachi, S., see Fonteneau 140 (1992) 340
Mitani, K., see Kadono 140 (1992) 103
Mitkova, M., E. Vateva and E. Skordeva, Photothermal recording in thin films of Se–Te–Ag glasses 137&138 (1991) 1013
Mitomo, M., see Sekine 134 (1991) 199
Mitsa, V., Y. Babinets, Y. Gvardioniv and I. Yermolovich, Photoluminescence in $Ge_xAs_ySi_{1-x-y}$ glasses by varying the average coordination number 137&138 (1991) 959
Mittiga, A., see Fornarini 137&138 (1991) 491
Miura, Y., see Nanba 140 (1992) 269
Miyagawa, R., T. Yamaguchi and A. Furukawa, a-Si:H photoconversion layer thermal degradation for a two level image sensor 137&138 (1991) 1317
Miyagi, M., see Nagano 135 (1991) 114
Miyaji, F. and S. Sakka, Structure of $PbO–Bi_2O_3–Ga_2O_3$ glasses 134 (1991) 77
Miyaji, F., K. Tadanaga, T. Yoko and S. Sakka, Coordination of Ga^{3+} ions in $PbO–Ga_2O_3$ glasses as determined by ^{71}Ga NMR 139 (1992) 268
Miyazaki, H., see Solin 131–133 (1991) 1213
Miyazaki, S., see Shin 137&138 (1991) 713
Miyazaki, S., K. Yamada and M. Hirose, Optical and electrical properties of a-Si_3N_4:H/a-Si:H superlattices prepared by plasma-enhanced nitridation technique 137&138 (1991) 1119
Miyazaki, S., see Murayama 137&138 (1991) 1123
Miyazima, H., see Nitta 137&138 (1991) 1071
Mizobata, E., see Yoshida 137&138 (1991) 1287
Mobilio, S., see Meneghini 137&138 (1991) 75
Mochena, M. and M. Pollak, Stud-

ies of relaxation effects in the Coulomb gap 131–133 (1991) 1260
Moddel, G., see Barbier 137&138 (1991) 1301
Mohri, H., see Komatsu 135 (1991) 105
Mohring, H.-D., see Schubert 137&138 (1991) 195
Mohring, H.-D., see Kessler 137&138 (1991) 745
Mohring, H.-D., C.-D. Abel, R. Brüggemann and G.H. Bauer, Characterization of high electronic quality a-SiC:H films by $\mu\tau$ products for electrons and holes 137&138 (1991) 847
Moine, P., see Holloway 134 (1991) 133
Momper, B., G. Meier and E.W. Fischer, Composition and molecular weight dependence of the interdiffusion coefficient and critical behavior in a binary polymer blend as measured by quasi-elastic light scattering 131–133 (1991) 624
Monceau, P., see Biljaković 131–133 (1991) 1254
Monnerie, L., Segmental dynamics of polymer melts 131–133 (1991) 755
Monnerie, L., see Cukierman 131–133 (1991) 898
Montrose, C.J., T.A. Litovitz, G. Birnbaum and R. Mennella, Viscoelastic relaxation in simple liquids: an interaction-induced phenomenon 131–133 (1991) 177
Mooney, G.D., see Mahan 137&138 (1991) 65
Moore, L.J., D.R. MacFarlane and P.J. Newman, Surface crystallization of ZBLAN glasses 140 (1992) 159
Moore, M.W., see Carter 140 (1992) 153
Moorthy, L.R., see Subramanyam 139 (1992) 67
Moosman, B., see Hautala 137&138 (1991) 1043
Morante, J.R., see Bertran 137&138 (1991) 895
Morgado, E., Electronegativity effects on the frequency of the N–H stretching mode in plasma deposited a-Si:N:H alloys 139 (1992) 248
Morgan, G.J., J.N. Burr, N.A. Bruce, B.J. Hickey and J.M. Holender, The electronic properties of amorphous semiconductors 137&138 (1991) 149
Morigaki, K., see Yamaguchi 137&138 (1991) 57
Morigaki, K., see Yokomichi 137&138 (1991) 183
Morigaki, K., see Kondo 137&138 (1991) 247
Morigaki, K., see Kondo 137&138 (1991) 275
Morigaki, K., see Li 137&138 (1991) 1115
Morigaki, K., see Yamaguchi 137&138 (1991) 1135
Morimoto, A., see Yan 137&138 (1991) 199
Morimoto, A., see Shimizu 137&138 (1991) 391
Morimoto, A., see Kumeda 137&138 (1991) 887
Morimoto, A., see Masuda 137&138 (1991) 985
Morimoto, S., see Nishii 140 (1992) 199
Morimoto, Y., T. Igarashi, H. Sugahara and S. Nasu, Analysis of gas release from vitreous silica 139 (1992) 35
Morris, R.L., see Schrag 131–133 (1991) 537
Mostefa, M., see Long 137&138 (1991) 419
Mou, S.M., see Zhong 134 (1991) 141
Mourchid, A., see Hulin 137&138 (1991) 527
Mourchid, A., see Vanderhaghen 137&138 (1991) 543
Movaghar, B., see Cleve 137&138 (1991) 415
Movaghar, B., see Arsenault 137&138 (1991) 1111
Moynihan, C.T., see Götze 131–133 (1991) 378
Moynihan, C.T., S.N. Crichton and S.M. Opalka, Linear and nonlinear structural relaxation 131–133 (1991) 420
Moynihan, C.T., see Ma 140 (1992) 209
Moynihan, C.T., see Hasz 140 (1992) 285
Mukai, M., see Nitta 137&138 (1991) 1071
Müller, G., see Krötz 137&138 (1991) 163
Müller, G., see Ruttensperger 137&138 (1991) 635
Müller, G., see Hartmann 137&138 (1991) 1067
Müller, G., see Wind 137&138 (1991) 1267
Muller, I.S., Neptunium in borosilicate glasses. A study of oxidation states and coordination sites by optical spectroscopy 134 (1991) 147
Muraki, T., see Nonomura 137&138 (1991) 1139
Muramatsu, S., see Könenkamp 137&138 (1991) 1173
Murayama, K., H. Hiramoto, S. Miyazaki and M. Hirose, Phonon interaction in the photoluminescence of a-Si:H/a-Si_3N_4:H multilayers 137&138 (1991) 1123
Murri, R., L. Schiavulli, N. Pinto and T. Ligonzo, Urbach tail in amorphous gallium arsenide films 139 (1992) 60
Muschik, T., see Wang 137&138 (1991) 1143
Musinu, A., G. Piccaluga, G. Pinna, G. Vlaic, D. Narducci and S. Pizzini, Coordination of zinc and copper in phosphate glasses by EXAFS 136 (1991) 198
Muthukumar, M., Entropic barrier model for polymer diffusion in concentrated polymer solutions and random media 131–133 (1991) 654
Myers, A.M., J.R. Doyle, G.J. Feng, N. Maley, D.L. Ruzic and J.R. Abelson, Energetic particle fluxes in magnetron sputter deposition of a-Si:H 137&138 (1991) 783
Mytilineou, E., see Kounavis 137&138 (1991) 955

Nachlis, W.L., see Kambour 131–133 (1991) 563
Nagano, N., M. Saito, M. Miyagi, N. Baba and N. Sawanobori, Refractive indices of SiO_2- and GeO_2-based glasses near the infrared absorption peaks 135 (1991) 114
Nagasaka, K., see Nogami 134 (1991) 71

Nagasaka, K., see Nogami 135 (1991) 182
Nagel, S.R., see Wu 131–133 (1991) 32
Nagels, P., R. Callaerts, M. van Roy and M. Vlček, Plasma deposition of amorphous As–S films 137&138 (1991) 1001
Naito, H., M. Amatsu and M. Okuda, Transient photoconductivity studies of the UV light soaked state of amorphous organic polysilanes 137&138 (1991) 271
Naito, H., T. Iwai, T. Matsushita and M. Okuda, Transient hole transport behavior of amorphous arsenic triselenide near its glass transition temperature 137&138 (1991) 947
Nakamura, K.-j., see Shirai 137&138 (1991) 653
Nakamura, M., H. Nasu and K. Kamiya, Preparation of organic dye-doped SiO_2 gels by the sol–gel process and evaluation of their optical non-linearity 135 (1991) 1
Nakamura, N., see Hishikawa 137&138 (1991) 717
Nakanishi, K., Y. Sagawa and N. Soga, Pore surface characteristics of macroporous silica gels prepared from polymer-containing solution 134 (1991) 39
Nakanishi, K. and N. Soga, Phase separation in silica sol–gel system containing polyacrylic acid. I. Gel formation behavior and effect of solvent composition 139 (1992) 1
Nakanishi, K. and N. Soga, Phase separation in silica sol–gel system containing polyacrylic acid. II. Effects of molecular weight and temperature 139 (1992) 14
Nakano, S., see Hishikawa 137&138 (1991) 717
Nakayama, Y., K. Hitsuishi, M. Zhang, H. Imamura and T. Kawamura, Role of ions in formation of amorphous Si:H network in electron cyclotron resonance plasma chemical vapor deposition 137&138 (1991) 669
Nakayama, Y., T. Yajima, H.-o. Ueda, S. Akita and T. Kawamura, Two-way photocurrent-multiplication in amorphous silicon carbide cells 137&138 (1991) 1279
Nakayoshi, Y., Y. Kanemitsu and Y. Masumoto, Dynamical aspects of laser-induced phase transformations in amorphous GeTe 137&138 (1991) 1005
Nakazato, K., see Kogo 140 (1992) 233
Nan, C.-W., R.W. Brotzman and D.M. Smith, Non-Debye stress relaxation in green silica gel 139 (1992) 172
Nanba, T., see Akasaka 140 (1992) 249
Nanba, T., A. Osaka, J. Takada, Y. Miura, H. Inoue, Y. Akasaka, H. Hagihara and I. Yasui, Network structure of AlF_3–BaF_2–CaF_2 glass 140 (1992) 269
Nanzai, Y., Strain-induced liquid-like structures in glassy polymers 131–133 (1991) 516
Náray-Szabó, G., see Kugler 137&138 (1991) 295
Narducci, D., see Musinu 136 (1991) 198
Narducci, P., see de Seta 137&138 (1991) 851
Narten, A.H., see Xenopoulos 131–133 (1991) 113
Nasu, H., see Hirao 134 (1991) 233
Nasu, H., see Nakamura 135 (1991) 1
Nasu, H., see Okasaka 136 (1991) 103
Nasu, S., see Morimoto 139 (1992) 35
Nebel, C.E., see Johnson 137&138 (1991) 235
Nebel, C.E., Transport in a-Si:H 137&138 (1991) 395
Neitzert, H.C., W. Hirsch, C. Swiatkowski, S. Schroetter and M. Kunst, Transient microwave detected photoconductivity as a tool for in-situ evaluation of intrinsic a-Si:H films deposited and annealed at different temperatures 137&138 (1991) 487
Nelson, B.P., see Vaněček 137&138 (1991) 191
Nelson, B.P., see Mahan 137&138 (1991) 657
Nelson, K.A., see Silence 131–133 (1991) 37
Nelson, K.A., see Halalay 131–133 (1991) 375
Nelson, S., see Fujieda 137&138 (1991) 1321
Nelson (moderator), K., see Götze 131–133 (1991) 378
Nemanich, R.J., see Wang 137&138 (1991) 741
Nesheva, D., see Ionov 137&138 (1991) 1151
Nesladek, M., G.J. Adriaenssens and A.S. Volkov, On the carrier transport mechanism in post-transit TOF experiments 137&138 (1991) 443
Nevšímalová, B., see Vlček 137&138 (1991) 1035
Newman, P.J., see Moore 140 (1992) 159
Newman, P.J., see Zhou 140 (1992) 297
Newman, P.J., see MacFarlane 140 (1992) 335
Ngai, K.L., Temperature dependence of the stretched exponent in structural relaxation of fragile glass-forming molecular liquids 131–133 (1991) 80
Ngai, K.L. and R.W. Rendell, Toward a theory of relaxation in correlated systems: diffusion in the phase space of a chaotic Hamiltonian 131–133 (1991) 233
Ngai, K.L., see Rajagopal 131–133 (1991) 282
Ngai, K.L., see Rendell 131–133 (1991) 442
Ngai, K.L., see Fytas 131–133 (1991) 544
Ngai, K.L., see Rendell 131–133 (1991) 667
Ngai, K.L., see Wang 131–133 (1991) 870
Ngai, K.L. and R.W. Rendell, From conformational transitions in a polymer chain to segmental relaxation in a bulk polymer 131–133 (1991) 942
Ngai, K.L., see Kanert 131–133 (1991) 1001

Ngai, K.L., see Strom 131–133 (1991) 1011
Ngai, K.L., see Bunde 131–133 (1991) 1109
Nguyen, H.V., see Li 137&138 (1991) 787
Nickel, N., W. Fuhs and H. Mell, TCS study of n- and p-channel amorphous silicon thin-film transistors 137&138 (1991) 1221
Nielaba, P. and M.W. Klein, Low-energy excitations from interacting tunneling units in the mean-field approximation 131–133 (1991) 225
Nienhaus, G.U., see Parak 131–133 (1991) 362
Nighan Jr, W.L., see Hulin 137&138 (1991) 527
Nighan Jr, W.L., see Vanderhaghen 137&138 (1991) 543
Niklasson, G.A., K. Brantervik and L. Börjesson, Conductivity relaxation in silver iodide–silver borate glasses 131–133 (1991) 1096
Nimtz, G., see Pelster 131–133 (1991) 238
Ninomiya, T., see Tada 137&138 (1991) 997
Nishii, J., S. Morimoto, I. Inagawa, R. Iizuka, T. Yamashita and T. Yamagishi, Recent advances and trends in chalcogenide glass fiber technology: a review 140 (1992) 199
Nishikawa, Y., see Aoki 137&138 (1991) 749
Nishio, H., see Yamaguchi 137&138 (1991) 1305
Nitta, S., H. Miyazima, M. Mukai, S. Nonomura, S.Q. Gu and P.C. Taylor, Interface properties of a-Si:H/Si_3N_{4+x} and a-Si:H/SiO_2 elucidated by PLAS and its improvement by the atomic hydrogen 137&138 (1991) 1071
Nitta, S., S. Takeuchi, K. Ogawa, T. Furukawa, T. Itoh and S. Nonomura, Anomalous reflectance in random amorphous multilayers a-Si:H/$Si_{1-x}N_x$ and classical localization of light? 137&138 (1991) 1095
Nitta, S., see Nonomura 137&138 (1991) 1139
Nitzan, A., R. Granek and M. Ratner, Mechanical properties of dynamically disordered networks 131–133 (1991) 1018
Niwano, Y., see Hattori 137&138 (1991) 363
Nofz, M., see Himmel 136 (1991) 27
Nogami, M., Y.-Q. Zhu and K. Nagasaka, Preparation and quantum size effect of CuBr microcrystal doped glasses by the sol–gel process 134 (1991) 71
Nogami, M., S. Suzuki and K. Nagasaka, Sol–gel processing of small-sized CdSe crystal-doped silica glasses 135 (1991) 182
Nonomura, S., see Nitta 137&138 (1991) 1071
Nonomura, S., see Nitta 137&138 (1991) 1095
Nonomura, S., M. Ohta, H. Suzuki, T. Muraki, S. Kusakabe and S. Nitta, The hydrogen confinement and pipe diffusion on a-Si:H/a-Si_3N_4:H multilayer 137&138 (1991) 1139
Norberg, R.E., P.A. Fedders, J. Bodart, R. Corey, W. Paul, W.A. Turner and S.J. Jones, Connection between photovoltaic quality and the structure of deuterated amorphous Si and Ge films 137&138 (1991) 71
Nozaki, H., see Furukawa 137&138 (1991) 665
Nozaki, H., see Iida 137&138 (1991) 1313
Nozaki, R., see Mashimo 131–133 (1991) 1158
Nunnenkamp, J., see Stutzmann 137&138 (1991) 231
Nylén, P., see Fujieda 137&138 (1991) 1321

Oblasov, A.K., see Zhilinskaya 136 (1991) 76
Ochoa, R., see Simmons 134 (1991) 179
Oda, S. and M. Yasukawa, High quality a-Si:H films and interfaces prepared by VHF plasma CVD 137&138 (1991) 677
Odrobina, E., see Tyczkowski 137&138 (1991) 875
Ogawa, K., see Nitta 137&138 (1991) 1095
Oheda, H., Drift mobility under in-plane conduction in hydrogenated amorphous silicon nipi multilayers 137&138 (1991) 1147
Ohno, K., see Kadono 140 (1992) 103
Ohta, M., see Nonomura 137&138 (1991) 1139
Ohta, Y., see Futagi 137&138 (1991) 1271
Ohtani, N., see Futagi 137&138 (1991) 1271
Okada, S., see Sugahara 139 (1992) 25
Okamoto, H., see Hattori 137&138 (1991) 363
Okamoto, H., K. Hattori and Y. Hamakawa, A theoretical consideration on the electroabsorption spectra of amorphous semiconductors 137&138 (1991) 627
Okamoto, H., see Shimizu 137&138 (1991) 1275
Okamoto, H., see Yoshimi 137&138 (1991) 1283
Okasaka, K., H. Nasu and K. Kamiya, Investigation of coordination state of Zr^{4+} ions in the sol–gel-derived ZrO_2–SiO_2 glasses by EXAFS 136 (1991) 103
O'Kelly, B., see Devlin 135 (1991) 8
Öktü, Ö., see Herremans 137&138 (1991) 855
Okuda, M., see Naito 137&138 (1991) 271
Okuda, M., see Naito 137&138 (1991) 947
Okumura, K., see Furukawa 137&138 (1991) 665
Okushi, H., N. Orita, K. Arai and K. Tanaka, An evidence of solid-phase chemical equilibration of donor concentration in a-Si:H 137&138 (1991) 175
Okushi, H., see McElheny 137&138 (1991) 243
Okuyama, M., see Fukui 134 (1991) 293
Okuyama, M., see Fukui 139 (1992) 205
Olcaytug, F., see Tyczkowski 137&138 (1991) 875

Oliver, W.F., C.A. Herbst and G.H. Wolf, Viscous liquids and glasses under high pressure 131–133 (1991) 84
Ong, C.W., K.P. Chik and H.K. Wong, Optical absorption of a-B and a-$B_{1-x}Si_x$ films prepared by LPCVD method 137&138 (1991) 923
Onishi, M., see Kogo 140 (1992) 233
Onuki, M., see Fujiyoshi 137&138 (1991) 935
Oomen, E.W.J.L., Upconversion in Tm^{3+}-doped ZBLAN glasses 140 (1992) 150
Opalka, S.M., see Moynihan 131–133 (1991) 420
Ordejón, P. and F. Ynduráin, Theoretical study of a-SiN_xH_y alloys 137&138 (1991) 891
O'Reilly, J.M. and I.M. Hodge, Effects of heating rate on enthalphy recovery in polystyrene 131–133 (1991) 451
O'Reilly, J.M. and J.S. Sedita, Dielectric and enthalpic relaxation behavior of polyesters, polycarbonates and polystyrene and their blends near T_g 131–133 (1991) 1140
Orita, N., see Okushi 137&138 (1991) 175
Osaka, A., see Nanba 140 (1992) 269
Osborne, I.S., see Hajto 137&138 (1991) 499
Osborne, I.S., see Snell 137&138 (1991) 1257
Osuka, T., see Akasaka 140 (1992) 249
Ota, R., T. Yasuda and J. Fukunaga, Calculation of some physical properties of alkali borate glasses based on the chemical equilibrium concept 139 (1992) 93
Owen, A.E., see Hajto 137&138 (1991) 499
Owen, A.E., see Hajto 137&138 (1991) 1039
Owen, A.E., see Snell 137&138 (1991) 1257
Owen, A.E., see Zakery 137&138 (1991) 1333
Owen, A.E., see Kozicki 137&138 (1991) 1341
Owens, A.P., see Elliott 131–133 (1991) 1036
Owens, A.P., A. Pradel, M. Ribes and S.R. Elliott, A quasi-elastic neutron scattering study of Ag^+ ion motion in the superionic glassy system Ag_2S–GeS_2 131–133 (1991) 1104

Paciotti, M., see Davis 137&138 (1991) 17
Paes Jr, H.R., see Pasa 137&138 (1991) 1087
Paesler, M.A., see Zhou 137&138 (1991) 127
Paesler, M.A. and G. Pfeiffer, Modelling the structure and photostructural changes in amorphous arsenic sulfide 137&138 (1991) 967
Pajevic, S., R. Bansil and C. Konak, Diffusion of linear polymer chains in gels 131–133 (1991) 630
Pakula, T., A model for dense systems with deformable particles or molecules 131–133 (1991) 289
Palsule, C., see Gangopadhyay 137&138 (1991) 539
Pang, D., see Wickboldt 137&138 (1991) 83
Pang, D., see Wraback 137&138 (1991) 531
Pannhorst, W., R. Haug, E. Rodek and K. Stetter, Hysteresis effects in low expansion glass-ceramics 131–133 (1991) 488
Paparelli, A., see D'Arrigo 131–133 (1991) 58
Papatheodorou, G.N., see Pavlatou 131–133 (1991) 88
Pappin, A.J., see Hutchinson 131–133 (1991) 483
Parak, F. and G.U. Nienhaus, Glass-like behaviour of proteins as seen by Mössbauer spectroscopy 131–133 (1991) 362
Park, K.C., see Kim 137&138 (1991) 1161
Parlinski, K., see Grimm 131–133 (1991) 76
Parrinello, M., see Finocchi 137&138 (1991) 153
Parthasarathy, G., see Ramakrishna 139 (1992) 129
Pasa, A.A., H.R. Paes Jr and W. Losch, The influence of substrates on the Au/Si interaction 137&138 (1991) 1087
Pascarelli, S., see Meneghini 137&138 (1991) 75
Pascault, J.-P., see Boiteux 131–133 (1991) 1131
Pascova, R., see Bartels 136 (1991) 181
Pasini, P., see Biscarini 131–133 (1991) 1190
Patel, H.K., see Martin 131–133 (1991) 1041
Patkowski, A., see Fischer 131–133 (1991) 134
Patra, A. and D. Ganguli, Effects of Pb^{2+}-doping on alkoxide-derived silica sols and gels 139 (1992) 165
Patsis, A.P., see Chryssikos 131–133 (1991) 1068
Patsis, A.P., see Kamitsos 131–133 (1991) 1092
Patsis, A.P., see Koritala 134 (1991) 277
Patterson, G.D. and G.C. Berry, Dynamic light scattering from polymer solutions under non-hydrodynamic conditions 131–133 (1991) 799
Paul, W., K. Binder, D.W. Heermann and K. Kremer, Self-diffusion in polymer solutions using the bond-fluctuation MC-algorithm 131–133 (1991) 650
Paul, W., see Norberg 137&138 (1991) 71
Paul, W., see Wickboldt 137&138 (1991) 83
Paul, W., see Lee 137&138 (1991) 367
Paul, W., see Wraback 137&138 (1991) 531
Paul, W., Structural, optical and photoelectronic properties of improved PECVD a-Ge:H 137&138 (1991) 803
Pavlatou, E.A., G.N. Papatheodorou, A.K. Rizos and G. Fytas, Dynamic light scattering and low-frequency Raman scattering study of ionic KNO_3·$Ca(NO_3)_2$ mixtures 131–133 (1991) 88
Pecora, A., see Fanfoni 137&138 (1991) 1079
Pecora, A., see Fortunato 137&138 (1991) 1225
Pecora, A., G. Fortunato, L. Mariucci and A. Bearzotti, Chemically sensitive hydrogenated amorphous silicon thin-film transistors 137&138 (1991) 1253

Pedone, F., see Bonincontro 131–133 (1991) 1186
Pelster, R., G. Galeczki, G. Nimtz and P. Pissis, Frequency-dependent processes in dispersed systems of mesoscopic particles 131–133 (1991) 238
Peng, S., J. Liu, N. Ke, P. Li and S.P. Wong, ESR splitting induced by ion implanted fluorine in amorphous silicon 137&138 (1991) 383
Pereña, J.M., see Lorenzo 131–133 (1991) 584
Pereña, J.M., M.M. Marugán, A. Bello and E. Pérez, Viscoelastic relaxations in thermotropic polybibenzoates 131–133 (1991) 891
Perenboom, J.A.A.J., see Kumar Mendiratta 134 (1991) 100
Pérez, E., see Lorenzo 131–133 (1991) 584
Pérez, E., see Pereña 131–133 (1991) 891
Perez, J., see Etienne 131–133 (1991) 66
Perez, J., see Cavaillé 131–133 (1991) 935
Perez, J., see Etienne 131–133 (1991) 1072
Perez-Mendez, V., G. Cho, J. Drewery, T. Jing, S.N. Kaplan, S. Qureshi, D. Wildermuth, I. Fujieda and R.A. Street, Amorphous silicon based radiation detectors 137&138 (1991) 1291
Perrin, J., Plasma and surface reaction during a-Si:H film growth 137&138 (1991) 639
Perrin, J., see Leblanc 137&138 (1991) 1165
Peters, M.J. and L.E. McNeil, Evidence of distinct structural clusters in amorphous $Ge_{1-x}Sn_xSe_2$ 139 (1992) 231
Petropoulos, J.H., see Sanopoulou 131–133 (1991) 827
Petrova-Koch, V., see Kozlowski 137&138 (1991) 91
Petry, W., see Doster 131–133 (1991) 357
Pfeiffer, G., see Paesler 137&138 (1991) 967
Pfleiderer, H., see Kusian 137&138 (1991) 813
Pfleiderer, H., see Kopetzky 137&138 (1991) 1201
Pfleiderer, H., Surface recombination in a-Si solar cells 137&138 (1991) 1205
Phifer, C.C., see Boulard 140 (1992) 350
Philippot, E., see Armand 139 (1992) 137
Philips, P. and J.-L. Wu, The origin of extended states in conducting polymers 137&138 (1991) 927
Phillies, G.D.J., The hydrodynamic scaling model for polymer dynamics 131–133 (1991) 612
Phillips, W.A., see Bellingham 137&138 (1991) 519
Piccaluga, G., see Musinu 136 (1991) 198
Piccirilli, P., see Giona 131–133 (1991) 71
Pickin, W., see Marshall 137&138 (1991) 343
Pickin, W. and J.M. Marshall, Transient luminescence in amorphous silicon 137&138 (1991) 575
Pierna, A.R., see Blanco 136 (1991) 91
Pierz, K., M. Stutzmann, S. Zollner, W. Beyer and C. Brillerty, Structural properties of Li-doped hydrogenated amorphous silicon 137&138 (1991) 107
Pilbrow, J.R., see Warne 140 (1992) 314
Pilbrow, J.R., see Warne 140 (1992) 319
Pinna, G., see Musinu 136 (1991) 198
Pinto, N., see Murri 139 (1992) 60
Pipoz, P., see Sauvain 137&138 (1991) 475
Pirc, R., B. Tadić, R. Blinc and R. Kind, Theory of local-polarization distribution in deuteron glasses: effects of replica-symmetry breaking 131–133 (1991) 92
Pirri, C.F., see Battezzati 137&138 (1991) 87
Pirri, C.F., see DellaMea 137&138 (1991) 95
Pirri, C.F., see Demichelis 137&138 (1991) 839
Pisanias, M.N., see Xanthopoulos 131–133 (1991) 1099
Pisárčik, M., see Koudelka 134 (1991) 86
Pisarkiewicz, T., T. Stapinski, H. Czternastek and P. Rava, Inhomogeneity of amorphous silicon thin films from optical transmission and reflection measurements 137&138 (1991) 619
Pissis, P. and L. Apekis, A dielectric study of molecular mobility at glass transition 131–133 (1991) 95
Pissis, P., see Pelster 131–133 (1991) 238
Pissis, P., A. Anagnostopoulou-Konsta, L. Apekis, D. Daoukaki-Diamanti and C. Christodoulides, Dielectric effects of water in water-containing systems 131–133 (1991) 1174
Pissis, P., see Anagnostopoulou-Konsta 131–133 (1991) 1182
Pizzini, S., see Musinu 136 (1991) 198
Plättner, R., see Kočka 137&138 (1991) 427
Plättner, R., see Kasper 137&138 (1991) 799
Plazek, D.J., see Rendell 131–133 (1991) 442
Plazek, D.J., C. Seoul and C.A. Bero, Diluent effects on viscoelastic behavior 131–133 (1991) 570
Plazek, D.J., A myopic review of the viscoelastic behavior of polymers 131–133 (1991) 836
Pleil, M., see Gangopadhyay 137&138 (1991) 859
Pogány, L., see Popova 135 (1991) 255
Pohlmann, A., R. Fischer, R. Brüggemann, W. Stolz and E.O. Göbel, Transient photoconductivity in amorphous $S_{1-x}C_x$:H 137&138 (1991) 547
Polischuk, B., S.O. Kasap, V. Aiyah, D. Scansen and A. Bekirov, Charge carrier trapping in chalcogenide semiconductors 137&138 (1991) 943
Polischuk, B., see Kasap 137&138 (1991) 1329
Polischuk, B., see Aiyah 137&138 (1991) 1337
Pollak, M., The low-frequency conductivity in localized disordered systems 131–133 (1991) 1245

Pollak, M., see Mochena 131–133 (1991) 1260
Polman, A., see Marcus 136 (1991) 260
Pong, R., see Tsai 131–133 (1991) 1218
Poole, S.B., see Atkins 140 (1992) 123
Poon, C.-D. and E.T. Samulski, Deuterium NMR lineshapes in polymer networks 131–133 (1991) 509
Poon, S.J., see Hsieh 135 (1991) 248
Popescu, M., A. Andriesh, V. Chumash, N. Enachi, I. Cojocaru and A. Grozescu, Non-Archimedean model for the relaxation process of the photoinduced darkening in amorphous chalcogenide films 137&138 (1991) 973
Popova, S.V., G.G. Skrotskaya, V.I. Larchev, G. Zentai, L. Pogány, V.N. Denisov and B.N. Mavrin, Structural peculiarities of disordered gallium antimonide produced by high-pressure rapid quenching from the liquid 135 (1991) 255
Popova, S.V., see Brazhkin 136 (1991) 241
Poulain, M., Overview of crystallization in fluoride glasses 140 (1992) 1
Poulain, M., see Messaddeq 140 (1992) 41
Poulain, M., R. Lebullenger and M. Saad, Synthesis of high purity fluorides by wet chemistry 140 (1992) 57
Poulain, M., see Soufiane 140 (1992) 62
Poulain, M., see Messaddeq 140 (1992) 77
Poulain, M., see Matecki 140 (1992) 82
Poulain, M. and M. Poulain, Magnesium in fluoride glasses 140 (1992) 87
Poulain, M., see Poulain 140 (1992) 87
Poulain, M., see Saad 140 (1992) 112
Powell, M.J., C. van Berkel and S.C. Deane, Instability mechanisms in amorphous silicon thin film transistors and the role of the defect pool 137&138 (1991) 1215
Pradal, F., see Thèye 137&138 (1991) 963
Pradel, A. and M. Ribes, Relaxation processes in ionic conductive chalcogenide glasses studied by electrical and NMR spectroscopies 131–133 (1991) 1063
Pradel, A., see Etienne 131–133 (1991) 1072
Pradel, A., see Owens 131–133 (1991) 1104
Prasad, K., F. Finger, S. Dubail, A. Shah and M.B. Schubert, Deposition of phosphorus doped microcrystalline silicon below 70°C at 70 MHz 137&138 (1991) 681
Priori, S., see Fanfoni 137&138 (1991) 1079
Psarras, G.C., see Tsangaris 131–133 (1991) 1164
Pureza, P.C., see Freitas Jr 140 (1992) 166

Qi, D.W. and S. Wang, Thermodynamic calculations for glasses: thermodynamic properties of the metallic glass transition 135 (1991) 73
Quan, X., see Matsuoka 131–133 (1991) 293
Quaresima, C., see Fanfoni 137&138 (1991) 1079
Qureshi, S., see Perez-Mendez 137&138 (1991) 1291

Rabenau, T., see Fischer 131–133 (1991) 134
Radtke, D.R., see Schrag 131–133 (1991) 537
Raghunathan, P. and S.C. Sivasubramanian, Structural characterization of some novel ternary PbO–$PbCl_2$–$CuCl_2$ glasses by X-ray pair distribution functions, thermal analysis and electron paramagnetic resonance 136 (1991) 14
Rai, J. and R.C. Mehrotra, Synthesis, reactivity and structural studies of bimetallic-μ-oxo-alkoxide Ca–Al systems 134 (1991) 23
Raikh, M.E., see Ihn 137&138 (1991) 523
Rajagopal, A.K., K.L. Ngai and S. Teitler, Theoretical aspects of coupling model schemes of slow relaxation in complex correlated systems 131–133 (1991) 282
Ramakrishna, R., S. Asokan, G. Parthasarathy, S.S.K. Titus and E.S.R. Gopal, Calorimetric studies of Al_xTe_{100-x} glasses: composition dependence of crystallization and a new compound in the Al–Te system 139 (1992) 129
Rangarajan, B. and C.T. Lira, The effect of aging on acid-catalyzed aerogels 136 (1991) 111
Raoux, D., see Zhou 137&138 (1991) 127
Raoux, D., see Udron 137&138 (1991) 131
Rath, J.K., W. Fuhs and H. Mell, Metastable photo-induced changes in compensated a-Si:H films 137&138 (1991) 279
Ratner, M., see Nitzan 131–133 (1991) 1018
Rava, P., see DellaMea 137&138 (1991) 95
Rava, P., see Pisarkiewicz 137&138 (1991) 619
Ravez, J., see Kazaoui 131–133 (1991) 1202
Ravez, J., see Largeteau 131–133 (1991) 1224
Read, B.E., Analysis of creep and physical aging in glassy polymers 131–133 (1991) 408
Redfield, D. and R.H. Bube, Defects in amorphous silicon – extrinsic or intrinsic? 137&138 (1991) 215
Reichle, E., see Hoheisel 137&138 (1991) 1181
Reitter, A.M., A.N. Sreeram, A.K. Varshneya and D.R. Swiler, Modified preparation procedure for laboratory melting of multicomponent chalcogenide glasses 139 (1992) 121

Rekhson, S., A model for non-linear viscoelastic relaxation 131–133 (1991) 467
Rendell, R.W., see Ngai 131–133 (1991) 233
Rendell, R.W., K.L. Ngai and D.J. Plazek, Volume-dependent rate processes predicted by the coupling model 131–133 (1991) 442
Rendell, R.W. and K.L. Ngai, Convolution integral formulation of dispersive diffusion transport: numerical solutions for the coupling model waiting time distribution 131–133 (1991) 667
Rendell, R.W., see Wang 131–133 (1991) 870
Rendell, R.W., see Ngai 131–133 (1991) 942
Revesz, A.G., see Arndt 131–133 (1991) 1206
Reynolds, S., see Main 137&138 (1991) 951
Riande, E., see Díaz-Calleja 131–133 (1991) 852
Riande, E., see Conde 131–133 (1991) 883
Ribbing, C.G., see Ljungdahl 136 (1991) 137
Ribes, M., see Pradel 131–133 (1991) 1063
Ribes, M., see Etienne 131–133 (1991) 1072
Ribes, M., see Owens 131–133 (1991) 1104
Richter, D., see Frick 131–133 (1991) 169
Richter, D., L.J. Fetters, J.S. Huang, B. Farago and B. Ewen, Neutron spin–echo investigations on the dynamics of polymer systems 131–133 (1991) 604
Richter, D., see Ewen 131–133 (1991) 697
Riede, V., see Drüsedau 135 (1991) 67
Rigato, V., see DellaMea 137&138 (1991) 95
Riman, R.E., see Léaustic 135 (1991) 259
Ringeisen, F., see Koulmann 135 (1991) 243
Risen Jr, W.M., see Burns 131–133 (1991) 994
Risen (moderator), W., see Angell 131–133 (1991) 1113
Ristein, J., Unification of geminate and distant pair recombination statistics: low temperature photoelectronic properties in a-Si:H 137&138 (1991) 563
Ristein, J., see Gu 137&138 (1991) 591
Rivas, J., see López-Quintela 131–133 (1991) 229
Rivas, J., M.A. López-Quintela, D. Martínez, F. Walz and H. Kronmüller, Magnetic relaxation in amorphous metals 131–133 (1991) 1235
Rizos, A.K., see Pavlatou 131–133 (1991) 88
Robertson, F.J., see Gladden 139 (1992) 47
Robertson, J., Preparation and properties of amorphous carbon 137&138 (1991) 825
Roca i Cabarrocas, P., see Meaudre 137&138 (1991) 171
Roca i Cabarrocas, P., M. Stchakovsky, B. Drevillon, F. Fortuna and H. Bernas, Kinetics of formation of silicides in a-Si:H/Pd interfaces monitored by in situ ellipsometry and Kelvin probe techniques 137&138 (1991) 1055
Rodek, E., see Pannhorst 131–133 (1991) 488
Rogachev, N., see Marakhonov 137&138 (1991) 817
Rohwer, K., P. Hammer, J.-U. Thiele, W. Gissler, P. Blaudeck, Th. Frauenheim and D. Meissner, Electrical and optical properties of plasma-deposited amorphous hydrocarbon films 137&138 (1991) 843
Roizin, Y., Failure phenomena due to hydrogen migration in amorphous a-SiN_x:H films 137&138 (1991) 61
Roizin, Y., see Andrianova 137&138 (1991) 79
Roizin, Y. and L. Tsibeskov, Hopping conductivity due to bipolarons in amorphous silicon nitride films 137&138 (1991) 515
Roman, H.E. and M. Giona, Hierarchically constrained dynamics on self-similar structures 131–133 (1991) 207
Roovers, J., Melt rheology of highly branched polymers 131–133 (1991) 793
Rose, M.J., see Hajto 137&138 (1991) 499
Rose, M.J., see Snell 137&138 (1991) 1257
Rosman, G., Dynamics of glass cooling applied to preform fabrication 140 (1992) 255
Rosman, G., see Andrews 140 (1992) 281
Rosman, G., see Hopgood 140 (1992) 301
Rossi, M.C., see Stutzmann 137&138 (1991) 231
Rössler, E., K. Börner, M. Schulz and M. Taupitz, Energy landscapes in disordered systems via studying the dymanics of mobile probes 131–133 (1991) 99
Rössler, E., Experimental results revealing a change of diffusion mechanism above T_g 131–133 (1991) 242
Roth, A. and F.J. Comes, Silicon film formation by hydrogen reactions 137&138 (1991) 721
Rotstein, N.A., see Lodge 131–133 (1991) 671
Rouch, J., see Chen 131–133 (1991) 275
Roux, J.-N., see Barrat 131–133 (1991) 255
Roy, A.K., see Jones 131–133 (1991) 556
Rübel, H., W. Frammelsberger, P. Lechner and N. Kniffler, Subbandgap absorption in a-Si:H pin cells illuminated with infrared light 137&138 (1991) 1169
Rubio, M.A., see Conde 131–133 (1991) 883
Rückschloss, M., see Vepřek 137&138 (1991) 733
Rudenko, A.I., see Arkhipov 137&138 (1991) 503
Ruller, J.A. and E.J. Friebele, The effect of gamma-irradiation on the density of various types of silica 136 (1991) 163
Rummens, C.P.J., see Wijnen 136 (1991) 119
Rüssel, C., Self diffusion of polyvalent ions in a soda–lime–silica glass melt 134 (1991) 169
Rüssel, C., see Jaschek 135 (1991) 236
Russell, T.P., see Felcher 131–133 (1991) 703
Ruttensperger, B., G. Krötz, G. Müller, G. Derst and S. Kalb-

itzer, Crystalline–amorphous contrast formation in thermally crystallized SiC 137&138 (1991) 635
Ruzic, D.L., see Myers 137&138 (1991) 783

Saad, M., see Poulain 140 (1992) 57
Saad, M., M. El Farissi and M. Poulain, Influence of sulphate anions on the chemical durability of the BATY glass 140 (1992) 112
Sagawa, Y., see Nakanishi 134 (1991) 39
Sahar, M.R. and D. Holland, Chemical durability of oxychloride glasses 140 (1992) 107
Saiter, J.M., see Vautier 131–133 (1991) 520
Saiter, J.M., J. Grenet and Ph. Lebaudy, Relaxations and structural states in vitreous SeGe alloys 131–133 (1991) 524
Saito, K., see Uchida 134 (1991) 176
Saito, M., see Nagano 135 (1991) 114
Sakai, H. and Y. Ichikawa, Process technology for a-Si/a-Si double stacked tandem solar cells with stabilized 10% efficiency 137&138 (1991) 1155
Sakai, Y., see Hosono 139 (1992) 90
Sakamoto, S., see Yonezawa 137&138 (1991) 135
Sakka, S., see Miyaji 134 (1991) 77
Sakka, S., see Tanaka 135 (1991) 211
Sakka, S., see Miyaji 139 (1992) 268
Sakurai, C., see Fukui 134 (1991) 293
Sakurai, C., see Fukui 139 (1992) 205
Salamon, S.J., see Crandall 137&138 (1991) 311
Salamon, S.J., see Mahan 137&138 (1991) 657
Saleh, R., see Baranovskii 137&138 (1991) 567
Saleh, Z.M., G.A. Williams and P.C. Taylor, Possible atomic diffusion of Cu in glassy Cu–As–Se 137&138 (1991) 1047
Salvetti, G., see D'Arrigo 131–133 (1991) 58
Salvetti, G., see Bertolini 131–133 (1991) 1169
Salyk, O., see Schauer 137&138 (1991) 1241
Salzman, J., see Zelikson 137&138 (1991) 455
Samek, L., J. Wasylak and K. Marczuch, Optical properties of fluorozirconate glasses activated with rare earth elements 140 (1992) 243
Samulski, E.T., see Poon 131–133 (1991) 509
San Román, J., see Díaz-Calleja 131–133 (1991) 852
Sanghera, J.S., B.B. Harbison and I.D. Aggarwal, Challenges in obtaining low loss fluoride glass fibers 140 (1992) 146
Sanghera, J.S., see Freitas Jr 140 (1992) 166
Sanjurjo, J.A., see Koropecki 137&138 (1991) 835
Sano, N., see Wakasugi 135 (1991) 139
Sanopoulou, M. and J.H. Petropoulos, Relation of diffusion to viscoelastic properties in a glassy polymer-swelling agent system 131–133 (1991) 827
Santore, M.M., see McKenna 131–133 (1991) 497
Santos, P.V., see Jackson 137&138 (1991) 21
Santos, P.V., C. Doland, N.M. Johnson and R.A. Street, Light-induced hydrogen diffusion in a-Si:H 137&138 (1991) 33
Santos, P.V. and W.B. Jackson, A weak bond/dangling bond conversion model for light-induced defects in a-Si:H 137&138 (1991) 203
Santos, P.V., see Johnson 137&138 (1991) 235
Sariban, A., see Binder 131–133 (1991) 635
Sarott, F.-A., see Vepřek 137&138 (1991) 733
Sasaki, M., see Fujiyama 135 (1991) 198
Sato, R., T. Komatsu and K. Matusita, Crystallization mechanism in $Bi_2Sr_2CuO_x$ glass 134 (1991) 270
Satoh, S., see Matsuyama 135 (1991) 22
Satyanarayana, N., G. Govindaraj and A. Karthikeyan, Effects of differing ratios of network modifier (Ag_2O) to network formers ($MoO_3+V_2O_5$) and dopant salt (AgI) concentrations in silver-based superionic glassy compounds 136 (1991) 219
Saurina, J., see Clavaguera-Mora 131–133 (1991) 479
Sauvain, E., A. Shah, J. Hubin and P. Pipoz, Effects of dangling bond charge on ambipolar transport measurements in a-Si:H 137&138 (1991) 475
Savchenko, A.K., see Ihn 137&138 (1991) 523
Sawanobori, N., see Nagano 135 (1991) 114
Sayers, D.E., see Zhou 137&138 (1991) 127
Scansen, D., see Polischuk 137&138 (1991) 943
Sceats, M.G., see Atkins 140 (1992) 123
Schade, K., see Suchaneck 137&138 (1991) 701
Schaefer, D., M. Hansen, B. Blümich and H.W. Spiess, 2D-solid state NMR studies of ultraslow motions: phenylflips and chain motions in the glassy state 131–133 (1991) 777
Schantz, S., see Torell 131–133 (1991) 981
Schauer, F., O. Zmeskal and O. Salyk, Temperature dependent field effect in a-Si:H 137&138 (1991) 1241
Schiavulli, L., see Murri 139 (1992) 60
Schiff, E.A., see Zafar 137&138 (1991) 323
Schiff, E.A., see Antoniadis 137&138 (1991) 407
Schiff, E.A., see Antoniadis 137&138 (1991) 435
Schiff, E.A., see Wraback 137&138 (1991) 531
Schilling, R., see Kob 131–133 (1991) 248
Schirmer, A., see Heitjans 131–133 (1991) 1053
Schlosser, E., see Schönhals 131–133 (1991) 1161
Schmelzer, J., see Bartels 136 (1991) 181
Schneider, E., J. Wong and J.M. Thomas, Multinuclear solid state

NMR investigation of titanium-containing silicate glasses 136 (1991) 1
Scholl, R., see Young 131–133 (1991) 302
Scholz, S. and B. Schröder, Interpretation of the saturation behaviour of the metastable defect density created in intrinsic a-Si:H by keV-electron irradiation 137&138 (1991) 259
Schönhals, A. and E. Schlosser, A new model for the interpretation of the shape of the dielectric relaxation function 131–133 (1991) 1161
Schrag, J.L., T.M. Stokich, D.A. Strand, P.A. Merchak, C.J.T. Landry, D.R. Radtke, V.F. Man, T.P. Lodge, R.L. Morris, K.C. Hermann, S. Amelar, C.E. Eastman and M.A. Smeltzly, Local modification of solvent dynamics by polymeric solutes 131–133 (1991) 537
Schröder, B., see Scholz 137&138 (1991) 259
Schroetter, S., see Neitzert 137&138 (1991) 487
Schropp, R.E.I., see Zhu 137&138 (1991) 355
Schubert, M.B., H.-D. Mohring, R. Zedlitz and G.H. Bauer, Equilibration temperature of a-Si:H and a-Ge:H from Raman measurements 137&138 (1991) 195
Schubert, M.B., see Prasad 137&138 (1991) 681
Schuiling, R.D., see van Beek 134 (1991) 14
Schulz, M., see Rössler 131–133 (1991) 99
Schumacher, R., see Cleve 137&138 (1991) 415
Schumm, G. and G.H. Bauer, Equilibrium and non-equilibrium gap state distribution in a-Si:H 137&138 (1991) 315
Schumm, G., C.-D. Abel and G.H. Bauer, Photoconductivity and $\mu\tau$-products in a-Si:H – compatibility with various defect models 137&138 (1991) 351
Schumm, G., see Brüggemann 137&138 (1991) 359
Schwarz, R., see Wang 137&138 (1991) 511
Schwarz, R., see Ihn 137&138 (1991) 523
Schwarz, R., see Wang 137&138 (1991) 1143
Schwarz, R., see Kopetzky 137&138 (1991) 1201
Schweiger, A., see Wang 137&138 (1991) 511
Schweizer, K., see Binder 131–133 (1991) 742
Schweizer, K.S., Mode–mode-coupling theory of the dynamics of polymeric liquids 131–133 (1991) 643
Seager, C.H., see Kanicki 137&138 (1991) 291
Searle, T.M., Recombination of electron–hole pairs at low temperatures 137&138 (1991) 571
Sebastiani, M., see Fornarini 137&138 (1991) 491
Sedita, J.S., see O'Reilly 131–133 (1991) 1140
Sekine, M., S. Katayama and M. Mitomo, Preparation of silicon oxynitride glass fibers by ammonolysis of silica gels 134 (1991) 199
Senapati, H., see Böhmer 131–133 (1991) 182
Senemaud, C., see Wu 137&138 (1991) 863
Senemaud, C., see Thèye 137&138 (1991) 963
Seoul, C., see Plazek 131–133 (1991) 570
Seykens, D., see van Beek 134 (1991) 14
Seytre, G., see Boiteux 131–133 (1991) 1131
Shah, A., see Favre 137&138 (1991) 335
Shah, A., see Wyrsch 137&138 (1991) 431
Shah, A., see Sauvain 137&138 (1991) 475
Shah, A., see Prasad 137&138 (1991) 681
Shapiro, F.R., Simulated time-of-flight experiments across abrupt and graded shifts in a band edge 137&138 (1991) 451
Sharma, S.K. and S. Hofmann, AES study of amorphous $Fe_{100-x}B_x$ (x=14–25 at.%) alloys 136 (1991) 126
Sharratt, A.P., see Gladden 139 (1992) 47
Shaw, J.G., see Hack 137&138 (1991) 1229
Shaw, J.G., M.G. Hack, P.G. LeComber and M. Willums, Density-of-states and transient simulations of amorphous-silicon devices 137&138 (1991) 1233
Shebanin, A.P., see Sokolov 137&138 (1991) 99
Sheu, E.Y., D.A. Storm and M.M. De Tar, Asphaltenes in polar solvents 131–133 (1991) 341
Shi, L., see Liu 137&138 (1991) 507
Shi, L., see Liu 139 (1992) 74
Shiflet, G.J., see Hsieh 135 (1991) 248
Shigematsu, M., see Kogo 140 (1992) 233
Shikata, T. and T. Kotaka, Entanglement network of thread-like micelles of a cationic detergent 131–133 (1991) 831
Shimada, T., see Könenkamp 137&138 (1991) 1173
Shimakawa, K., K. Ishida, S. Asokan and O. Imagawa, Reversible photoinduced changes of optical and electronic transport properties in organopolysilanes 137&138 (1991) 915
Shimakawa, K., S. Inami and S.R. Elliott, Photoinduced defects in amorphous chalcogenides: similarity and dissimilarity to the Staebler–Wronski effect 137&138 (1991) 1017
Shimizu, H., M. Yoshimi, K. Hattori, H. Okamoto and Y. Hamakawa, Improvement of blue-light emission in amorphous carbon based electroluminescent device 137&138 (1991) 1275
Shimizu, I., see Shirai 137&138 (1991) 653
Shimizu, I., see Shirai 137&138 (1991) 693
Shimizu, I., see Kawamura 137&138 (1991) 697
Shimizu, T., see Yan 137&138 (1991) 199
Shimizu, T., M. Matsumoto, M. Yoshita, M. Iwami, A. Morimoto and M. Kumeda, Influence of N,

O and C impurities in a-Si:H 137&138 (1991) 391
Shimizu, T., see Kumeda 137&138 (1991) 887
Shimizu, T., see Masuda 137&138 (1991) 985
Shin, H., S. Miyazaki and M. Hirose, A new deposition mode in plasma-enhanced cryogenic CVD 137&138 (1991) 713
Shinozuka, Y. and Y. Ishihara, Theoretical study on photo-structural change of a weak bond in tetrahedrally bonded amorphous semiconductors 137&138 (1991) 219
Shirai, H., K.-j. Nakamura, J. Hanna and I. Shimizu, Structural relaxation on growing surface during network formation of a-Si:H 137&138 (1991) 653
Shirai, H., T. Ariyoshi, J. Hanna and I. Shimizu, Stability and hole-transport in a-Si:H prepared by 'chemical annealing' 137&138 (1991) 693
Shklovskii, B.I., see Levin 137&138 (1991) 559
Shukla, A.K., see Mavi 137&138 (1991) 1083
Sideris, E.G., see Anagnostopoulou-Konsta 131–133 (1991) 1182
Sidorova, T.A., see Kosarev 137&138 (1991) 371
Siebke, F., W. Beyer, J. Herion and H. Wagner, Surface and bulk density of states of a-Si:H determined by CPM and total-yield photoelectron spectroscopy 137&138 (1991) 339
Siefert, J.M., see Wu 137&138 (1991) 227
Siefert, J.M., see Wu 137&138 (1991) 1075
Sietsma, J. and B.J. Thijsse, An investigation of universal medium range order in metallic glasses 135 (1991) 146
Sigmund, H., see Kozlowski 137&138 (1991) 91
Silence, S.M., S.R. Goates and K.A. Nelson, Impulsive stimulated scattering study of the structural relaxation dynamics of liquid triphenylphosphite 131–133 (1991) 37
Sillescu, H., Reptation and constraint release 131–133 (1991) 593
Sillescu, H., see Binder 131–133 (1991) 742
Sills, J.A., see Martin 135 (1991) 171
Silver, M., see Han 137&138 (1991) 267
Silver, M., see Wang 137&138 (1991) 599
Silverman, A., see Khait 137&138 (1991) 145
Simmons, J.H., T.P. Swiler and R. Ochoa, Molecular dynamics studies of brittle failure in silica: bond fracture 134 (1991) 179
Simunek, A. and G. Wiech, Partial densities of states and chemical shifts in the system a-SiO_x:H ($0 \leqslant x \leqslant 2.2$) 137&138 (1991) 903
Sinclair, R., see Holloway 134 (1991) 133
Singh, A., see Davis 137&138 (1991) 17
Situ, H., Y.W. Lu and A.-L. Jung, Evidence for a non-thermal mechanism of order–disorder transformations in optical recording thin films 137&138 (1991) 1009
Sivasubramanian, S.C., see Raghunathan 136 (1991) 14
Sjögren, L. and W. Götze, α-relaxation near the glass transition 131–133 (1991) 153
Sjögren, L., see Götze 131–133 (1991) 161
Skordeva, E., see Mitkova 137&138 (1991) 1013
Skrotskaya, G.G., see Popova 135 (1991) 255
Sleptsov, V.V., A.A. Kuzin, G.F. Ivanovsky, V.M. Elinson, S.S. Gerasimovich, A.M. Baranov and P.E. Kondrashov, Optical properties and phase composition of α-C:H films 136 (1991) 53
Slinger, C.W., see Zakery 137&138 (1991) 1333
Smart, R.G., see Carter 140 (1992) 10
Smektala, F., see Adam 140 (1992) 31
Smeltzly, M.A., see Schrag 131–133 (1991) 537
Smith, D.M., see Nan 139 (1992) 172
Smith, F.W. and Z. Yin, Free energy model for bonding in a-Si alloys 137&138 (1991) 871
Smith, F.W., see Yin 137&138 (1991) 879
Smotlacha, O., see Červinka 137&138 (1991) 123
Snell, A.J., see Hajto 137&138 (1991) 499
Snell, A.J., P.G. LeComber, J. Hajto, M.J. Rose, A.E. Owen and I.S. Osborne, Analogue memory effects in metal/a-Si:H/metal memory devices 137&138 (1991) 1257
Soares, F., see Vieira 137&138 (1991) 479
Sobotta, H., see Drüsedau 135 (1991) 67
Soga, N., see Nakanishi 134 (1991) 39
Soga, N., see Zhang 135 (1991) 55
Soga, N., see Zhang 135 (1991) 62
Soga, N., see Hirao 135 (1991) 90
Soga, N., see Hanada 135 (1991) 227
Soga, N., see Todoroki 136 (1991) 213
Soga, N., see Nakanishi 139 (1992) 1
Soga, N., see Nakanishi 139 (1992) 14
Soga, N., see Hirao 139 (1992) 151
Sokolov, A.P., A.P. Shebanin, O.A. Golikova and M.M. Mezdrogina, Structural order in amorphous silicon and its alloys: Raman spectra and optical gap 137&138 (1991) 99
Sokolov, A.P., see Gotchiyaev 137&138 (1991) 1297
Solin, S.A., H. Miyazaki, S. Lee and S.D. Mahanti, Static relaxations of puckering distortions in intercalated layered solids 131–133 (1991) 1213
Sorarù, G.D., see Brenna 134 (1991) 191
Soufiane, A. and M. Poulain, Influence of composition on glass

properties in the quaternary system ZrF_4–BaF_2–ThF_4–AlF_3 140 (1992) 62
Sowa, J., see Huang 131–133 (1991) 335
Spear, W.E., see Liu 137&138 (1991) 167
Speyer, R.F., see Agarwal 135 (1991) 95
Spiess, H.W., Two-dimensional NMR: new prospects for the elucidation of molecular dynamics in complex systems 131–133 (1991) 766
Spiess, H.W., see Schaefer 131–133 (1991) 777
Sreeram, A.N., see Reitter 139 (1992) 121
Stachowitz, R., M. Bort, R. Carius, W. Fuhs and S. Liedtke, Geminate recombination in a-Si:H 137&138 (1991) 551
Stadler, W., see Kozlowski 137&138 (1991) 91
Stapinski, T., see DellaMea 137&138 (1991) 95
Stapinski, T., see Pisarkiewicz 137&138 (1991) 619
Starbov, N., K. Starbova and J. Dikova, Surface microstructure and growth morphology of vacuum deposited a-As_2S_3 thin films 139 (1992) 222
Starbova, K., see Starbov 139 (1992) 222
Stchakovsky, M., see Roca i Cabarrocas 137&138 (1991) 1055
Steffen, W., see Fischer 131–133 (1991) 134
Steinert, J., see Kanert 131–133 (1991) 1001
Stetter, K., see Pannhorst 131–133 (1991) 488
Stevens, K.S., see Johnson 137&138 (1991) 235
Stieber, F., see Alig 131–133 (1991) 808
Štika, O., see Hoheisel 137&138 (1991) 615
Stokich, T.M., see Schrag 131–133 (1991) 537
Stolz, W., see Pohlmann 137&138 (1991) 547
Storm, D.A., see Sheu 131–133 (1991) 341
Stötzel, H., see Suchaneck 137&138 (1991) 701
Strand, D.A., see Schrag 131–133 (1991) 537
Street, R.A., see Santos 137&138 (1991) 33
Street, R.A., see Johnson 137&138 (1991) 235
Street, R.A. and M. Hack, Saturation and recovery kinetics of current-induced defects in a-Si:H 137&138 (1991) 263
Street, R.A., Model for the growth of plasma deposited a-Si:H and related materials 137&138 (1991) 645
Street, R.A., see Perez-Mendez 137&138 (1991) 1291
Street, R.A., see Fujieda 137&138 (1991) 1321
Strom, U., K.L. Ngai and O. Kanert, Nature of the linear frequency-dependent ac conductivity in glassy ionic conductors 131–133 (1991) 1011
Strom, U., see Freitas Jr 140 (1992) 166
Struik, L.C.E., Some problems in the non-linear viscoelasticity of amorphous glassy polymers 131–133 (1991) 395
Stuchlík, J., see Chen 137&138 (1991) 251
Stuchlík, J., see Kočka 137&138 (1991) 379
Stutzmann, M., see Bustarret 137&138 (1991) 53
Stutzmann, M., see Pierz 137&138 (1991) 107
Stutzmann, M., see Brandt 137&138 (1991) 211
Stutzmann, M., J. Nunnenkamp, M.S. Brandt, A. Asano and M.C. Rossi, Accelerated metastable defect creation in a-Si:H by short light pulses 137&138 (1991) 231
Stutzmann, M., see Kočka 137&138 (1991) 379
Stutzmann, M., see Asano 137&138 (1991) 623
Stutzmann, M., see Hammam 137&138 (1991) 911
Subramanyam, Y., L.R. Moorthy and S.V.J. Lakshman, Judd–Ofelt intensity parameters and laser analysis of Tm^{3+} in certain sulphate glasses 139 (1992) 67
Suchaneck, G., M. Albert, W. Beyer, H. Stötzel and K. Schade, Environmentally nonpolluting boron doping of a-$Si_{1-x}C_x$:H with liquid boron source 137&138 (1991) 701
Sugahara, H., see Morimoto 139 (1992) 35
Sugahara, Y., S. Okada, K. Kuroda and C. Kato, ^{29}Si-NMR study of hydrolysis and initial polycondensation processes of organoalkoxysilanes. I. Dimethyldiethoxysilane 139 (1992) 25
Sugama, T., N. Carciello and C. Taylor, Pyrogenic polygermanosiloxane coatings for aluminum substrates 134 (1991) 58
Sumiya, M., see Koinuma 137&138 (1991) 1127
Summonte, C., see Bianconi 137&138 (1991) 725
Sun, Z., see Liu 137&138 (1991) 507
Sun, Z., see Liu 139 (1992) 74
Suriñach, S., see Clavaguera-Mora 131–133 (1991) 479
Susa, K., see Matsuyama 135 (1991) 22
Suzuki, H., see Nonomura 137&138 (1991) 1139
Suzuki, S., see Nogami 135 (1991) 182
Suzuki, S., see Kogo 140 (1992) 233
Sviridov, V., see Andrianova 137&138 (1991) 79
Swiatkowski, C., see Neitzert 137&138 (1991) 487
Swiler, D.R., see Reitter 139 (1992) 121
Swiler, T.P., see Simmons 134 (1991) 179
Szabo, I. and G.H. Frischat, Effect of Se on the crystallization behaviour of ZrF_4–BaF_2–YF_3–AlF_3 glass 140 (1992) 16
Szebesta, D., see Carter 140 (1992) 153
Szu, S.P., see Wang 134 (1991) 249
Szu, S.P., see Tsai 135 (1991) 131
Szu, S.P., see Tsai 136 (1991) 227
Szwarc, H., Finite time thermodynamics of a Schottky anomaly: the minimal glass transition? 131–133 (1991) 252

Tachez, M., see Dianoux 131–133 (1991) 973
Tada, T., see Kimura 137&138 (1991) 919
Tada, T. and T. Ninomiya, Optically induced metastable defects in a-

As_2S_3 137&138 (1991) 997
Tadanaga, K., see Miyaji 139 (1992) 268
Tadić, B., see Pirc 131–133 (1991) 92
Tagliaferro, A., see Battezzati 137&138 (1991) 87
Tagliaferro, A., see Demichelis 137&138 (1991) 839
Takada, J., see Nanba 140 (1992) 269
Takahashi, S., Prospects for ultra-low loss using fluoride glass optical fiber: a review 140 (1992) 172
Takahashi, S., see Tick 140 (1992) 275
Takano, A., see Koinuma 137&138 (1991) 1127
Takeuchi, S., see Nitta 137&138 (1991) 1095
Tamai, K., see Hirao 135 (1991) 90
Tan, Z., see Zhang 134 (1991) 296
Tanabe, S., see Hirao 135 (1991) 90
Tanabe, S., see Hanada 135 (1991) 227
Tanabe, S., see Todoroki 136 (1991) 213
Tanabe, S., see Hirao 139 (1992) 151
Tanaka, H., see Kadono 140 (1992) 98
Tanaka, H., see Kadono 140 (1992) 103
Tanaka, K., T. Yoko, K. Kamiya, H. Yamada and S. Sakka, Properties of oxybromide tellurite glasses in the system $LiBr–Li_2O–TeO_2$ 135 (1991) 211
Tanaka, K., Photo-induced metastability in amorphous semiconductors 137&138 (1991) 1
Tanaka, K., see Okushi 137&138 (1991) 175
Tanaka, K., see Toyoshima 137&138 (1991) 765
Tanaka, K., Physics and applications of photodoping in chalcogenide glasses 137&138 (1991) 1021
Tanaka, K., see Hirao 139 (1992) 151
Tanaka, K., Defect densities in glasses 139 (1992) 179
Tanaka, T. and T. Inoue, Study of stress and birefringence relaxation of new amorphous polyarylates 131–133 (1991) 781
Tang, Z.R., see Devlin 135 (1991) 8
Tanidi, S., see Meaudre 137&138 (1991) 171
Taraskin, S., Thermalization in a system with a continuous spectrum of states 137&138 (1991) 25
Tartaglia, P., see Cametti 131–133 (1991) 187
Tartaglia, P., see Chen 131–133 (1991) 275
Tauc, J., see Chen 137&138 (1991) 251
Tauc, J., see Kočka 137&138 (1991) 379
Tauc, J., see Antoniadis 137&138 (1991) 407
Tauc, J., see Wraback 137&138 (1991) 531
Taupitz, M., see Rössler 131–133 (1991) 99
Tawada, Y., see Yamaguchi 137&138 (1991) 1305
Tawarayama, H., see Komatsu 135 (1991) 105
Taylor, C., see Sugama 134 (1991) 58
Taylor, P.C., see Gu 137&138 (1991) 591
Taylor, P.C., see Gaughan 137&138 (1991) 709
Taylor, P.C., see Hautala 137&138 (1991) 1043
Taylor, P.C., see Saleh 137&138 (1991) 1047
Taylor, P.C., see Nitta 137&138 (1991) 1071
Teitler, S., see Rajagopal 131–133 (1991) 282
Tellería, I., see Alegría 131–133 (1991) 457
Teowee, G., see Uhlmann 131–133 (1991) 1194
Terukov, E.I., see Chernyshov 134 (1991) 218
Terukov, E.I., see Koughia 137&138 (1991) 603
Terukov, E.I., see Marakhonov 137&138 (1991) 817
Tessler, L.R., see Koropecki 137&138 (1991) 835
Teuschler, T., M. Hundhausen and L. Ley, Individual electronic defect states in a-Si:H/a-SiN_x:H double barrier structures 137&138 (1991) 1107
Thanailakis, A., see Magafas 139 (1992) 146
Thèye, M.-L., see Meaudre 137&138 (1991) 171
Thèye, M.-L., M.F. Kotkata, K.M. Kandil, A. Gheorghiu, C. Senemaud, J. Dixmier and F. Pradal, Studies of evaporated amorphous $GeSe_2$ films as a function of annealing 137&138 (1991) 963
Thèye, M.-L., see Udron 137&138 (1991) 131
Thiele, J.-U., see Rohwer 137&138 (1991) 843
Thijsse, B.J., see Sietsma 135 (1991) 146
Thomas, J.M., see Schneider 136 (1991) 1
Thomas, P., see Cleve 137&138 (1991) 415
Thomas, P., see Baranovskii 137&138 (1991) 567
Thompson, M.J., A comparison of amorphous and poly crystalline TFTs for LC displays 137&138 (1991) 1209
Thompson, R., see Tsai 137&138 (1991) 673
Thönnes, W., see Fischer 131–133 (1991) 134
Thorpe, S.J., see Koo 134 (1991) 226
Tichý, L., see Červinka 137&138 (1991) 123
Tick, P.A., see Mitachi 135 (1991) 189
Tick, P.A., K.E. Lu, S. Mitachi, T. Kanamori and S. Takahashi, Hot stage optical microscopy studies of crystallization in fluoride glass melts 140 (1992) 275
Tikhomirov, V.K., see Lyubin 135 (1991) 37
Tikhomirov, V.K., see Lyubin 137&138 (1991) 993
Titus, S.S.K., see Ramakrishna 139 (1992) 129
Többen, H., see Wetenkamp 140 (1992) 19
Többen, H., see Wetenkamp 140 (1992) 25
Többen, H., see Wetenkamp 140 (1992) 35
Todoroki, S., S. Tanabe, K. Hirao and N. Soga, Phonon sideband spectra and local structure around Eu^{3+} ions in sodium silicate glasses 136 (1991) 213
Tolstoi, M.N., see Arbusov 134 (1991) 208
Tombari, E., see D'Arrigo 131–133 (1991) 58
Tombari, E., see Cole 131–133 (1991) 969
Tombari, E., see Bertolini 131–133 (1991) 1169
Toneva, A., see Koynov 137&138 (1991) 685
Torell, L.M., see Jacobsson 131–133 (1991) 104
Torell, L.M., see Börjesson 131–133 (1991) 139
Torell, L.M. and S. Schantz, Structural relaxation and chain flexiblity

in polymeric ion conductors 131–133 (1991) 981
Torgeson, D., see Martin 131–133 (1991) 1041
Torgeson, D.R., see Trunnell 139 (1992) 257
Toyoshima, Y., K. Arai, A. Matsuda and K. Tanaka, In situ characterization of the growing a-Si:H surface by IR spectroscopy 137&138 (1991) 765
Tran, M.Q., see Fritzsche 137&138 (1991) 467
Tress, O., see Heintze 137&138 (1991) 49
Tresso, E., see Battezzati 137&138 (1991) 87
Tresso, E., see DellaMea 137&138 (1991) 95
Tripodo, G., see Carini 131–133 (1991) 1028
Trofimov, G.S., A.I. Kosarev, A.G. Kovrov and P.G. LeComber, Non-steady state photo-EMF induced by the dynamic grating technique in a-Si:H films 137&138 (1991) 483
Tropper, A.C., see Carter 140 (1992) 10
Troyk, P.R., see Anderson 131–133 (1991) 587
Trunnell, M., D.R. Torgeson, S.W. Martin and F. Borsa, ^{7}Li and ^{11}B nuclear spin lattice relaxation in $B_2O_3+0.7Li_2O+XLiCl$ glassy fast ionic conductors 139 (1992) 257
Tsai, C.C., see Jackson 137&138 (1991) 21
Tsai, C.C., G.B. Anderson and R. Thompson, Low temperature growth of epitaxial and amorphous silicon in a hydrogen-diluted silane plasma 137&138 (1991) 673
Tsai, M., S.P. Szu, B. Wang and M. Greenblatt, Lithium ion conductivity of sol–gel synthesized LiCl containing $ZnO–SiO_2$ xerogels 136 (1991) 227
Tsai, P.P., S.P. Szu and M. Greenblatt, ^{7}Li, ^{29}Si, and ^{31}P NMR studies in $LiCl–Li_2O–P_2O_5–SiO_2$ glasses: structure and mechanism of ionic conductivity 135 (1991) 131
Tsai, T.E., R. Pong and P.L. Higby, Structural relaxation following crystallization in high purity GeO_2 glass 131–133 (1991) 1218
Tsai, T.E. and D.L. Griscom, Dispersive diffusive transport of free excitons in high purity silica 131–133 (1991) 1240
Tsangaris, G.M., G.C. Psarras and A.J. Kontopoulos, Dielectric permittivity and loss of an aluminum-filled epoxy resin 131–133 (1991) 1164
Tsibeskov, L., see Roizin 137&138 (1991) 515
Tsuchiya, Y., Thermodynamic evidence for rapid structural changes in glass-forming Si–Te alloys in the liquid state 136 (1991) 37
Tsuda, S., see Hishikawa 137&138 (1991) 717
Tsuge, S., see Hishikawa 137&138 (1991) 717
Tsuji, K., see Hamanaka 137&138 (1991) 977
Tsukihashi, F., see Wakasugi 135 (1991) 139
Turnbull, D., see Devaud 134 (1991) 129
Turner, W.A., see Norberg 137&138 (1991) 71
Turner, W.A., see Wickboldt 137&138 (1991) 83
Turner, W.A., see Lee 137&138 (1991) 367
Tyczkowski, J., E. Odrobina, M. Gazicki and F. Olcaytug, Band structure model of Ge–C alloy films prepared from tetraethylgermanium in a rf discharge 137&138 (1991) 875
Tyukov, V.V., see Arbusov 134 (1991) 208
Tzanetakis, P., H. Mell and W. Fuhs, Transient photocurrent regimes in hydrogenated amorphous silicon films under weak, square pulse illumination 137&138 (1991) 463
Uchida, H., see Yoshida 137&138 (1991) 1287
Uchida, N., K. Uematsu and K. Saito, Glass-forming region of $BaO–ZnO–Al_2O_3$ system. II 134 (1991) 176
Udron, D., M.-L. Thèye, D. Raoux, A.-M. Flank, P. Lagarde and J.-P. Gaspard, Structural study of coordination defects in amorphous GaAs by a combination of EXAFS and X-ray anomalous scattering experiments 137&138 (1991) 131
Ueda, H.-o., see Nakayama 137&138 (1991) 1279
Uematsu, K., see Uchida 134 (1991) 176
Uğur, H., S. Varol, S. Uğur and I. Karabay, Cross contamination due to dopants in single chamber deposition systems 137&138 (1991) 761
Uğur, S., see Uğur 137&138 (1991) 761
Uhlherr, A. and D.R. MacFarlane, ^{19}F NMR studies of barium fluorozirconate glasses containing alkali metal fluorides 140 (1992) 134
Uhlmann, D.R., G. Teowee and J.M. Boulton, Dielectric relaxation in ferroelectrics 131–133 (1991) 1194
Umezu, I., see Maeda 137&138 (1991) 883
Unold, Th., J.D. Cohen and C.M. Fortmann, Density of states and carrier dynamics in amorphous silicon germanium alloys and amorphous germanium 137&138 (1991) 809
Usala, S., see Marshall 137&138 (1991) 1237
Utsumi, W., see Kondo 137&138 (1991) 275
Valeev, N.Kh., see Zhilinskaya 136 (1991) 76
Valente, M.A., see Kumar Mendiratta 134 (1991) 100
van Beek, J.J., D. Seykens, J.B.H. Jansen and R.D. Schuiling, Incipi-

ent polymerization of SiO_2 in acid-catalyzed TMOS sol–gel systems with molar water/alkoxide ratio between 0.5 and 32 134 (1991) 14
van Berkel, C., see Powell 137&138 (1991) 1215
van Bommel, M.J., see Bernards 134 (1991) 1
van den Boogaard, M.J., W.M.A. Bik, F.H.P.M. Habraken and W.F. van der Weg, Deuterium diffusion in a-Si:H studied with elastic recoil detection 137&138 (1991) 29
van der Weg, W.F., see van den Boogaard 137&138 (1991) 29
van der Weg, W.F., see Zhu 137&138 (1991) 355
van Dongen, A.M.A., Tb^{3+} luminescence in fluorozirconate glasses: indicator for homogeneous Tb^{3+} distribution 139 (1992) 271
van Roy, M., see Nagels 137&138 (1991) 1001
van Santen, R.A., see Wijnen 136 (1991) 119
Vanderhaghen, R., see Hulin 137&138 (1991) 527
Vanderhaghen, R., A. Mourchid, D. Hulin, D.A. Young, W.L. Nighan Jr and P.M. Fauchet, The mechanism of subnanosecond carrier recombination in a-Si:H 137&138 (1991) 543
Vanecek, M., see Wyrsch 137&138 (1991) 347
Vaněček, M., B.P. Nelson, A.H. Mahan and R.S. Crandall, On equilibration processes in GD amorphous silicon, prepared at high substrate temperatures 137&138 (1991) 191
Varol, S., see Uğur 137&138 (1991) 761
Varshneya, A.K., see Reitter 139 (1992) 121
Vassilyev, V.A., see Chernyshov 134 (1991) 218
Vateva, E., see Mitkova 137&138 (1991) 1013
Vaupel, H., see Baranovskii 137&138 (1991) 567
Vautier, C., T. Derrey, J.M. Saiter and Ph. Lebaudy, Photorelaxation in amorphous $GeSe_{1-x}$ ($0<x<0.08$) thin films 131–133 (1991) 520
Vepřek, S., F.-A. Sarott and M. Rückschloss, Temperature dependence of the crystallite size and crystalline fraction of microcrystalline silicon deposited from silane by plasma CVD 137&138 (1991) 733
Vepřek, S., F. Glatz and R. Konwitschny, Challenges and confusions in the kinetics and mechanism of plasma induced deposition of a- and μc-Ge:H 137&138 (1991) 779
Vergnat, M., G. Marchal and Ph. Mangin, Structure and transport properties of amorphous Sn_xSi_{1-x} alloys ($0 \leqslant x \leqslant 1$) prepared by evaporation under an atomic hydrogen flow 137&138 (1991) 907
Veronesi, S., see D'Arrigo 131–133 (1991) 58
Veronesi, S., see Bertolini 131–133 (1991) 1169
Vieira, M., R. Martins, E. Fortunato, F. Soares and L. Guimarães, a-Si:H ambipolar diffusion length and effective lifetime measured by flying spot (FST) and spectral photovoltage (SPT) techniques 137&138 (1991) 479
Vignaux, M., see Gladden 139 (1992) 47
Viner, J.M., see Gaughan 137&138 (1991) 709
Vinogradov, A.J., see Kosarev 137&138 (1991) 371
Vlaic, G., see Musinu 136 (1991) 198
Vlček, M., see Nagels 137&138 (1991) 1001
Vlček, M., M. Frumar, M. Kubový and B. Nevšímalová, The influence of the composition of the layers and of the inorganic solvents on photoinduced dissolution of As–S amorphous thin films 137&138 (1991) 1035
Voirol, V. and H. Beck, Microscopic derivation of multiple-trapping equations for amorphous semiconductors 137&138 (1991) 423
Volkov, A.S., see Chernyshov 134 (1991) 218
Volkov, A.S., see Nesladek 137&138 (1991) 443
Vollmar, H.-P. and R. Bindeman, Luminescence by IR-stimulation of metastable carriers in a-Si:H: experiment and Monte-Carlo simulation 137&138 (1991) 587
Voloshin, R.N., see Brazhkin 136 (1991) 241
von der Linden, M.B., see Zhu 137&138 (1991) 355
von Meerwall, E.D., see Amelar 131–133 (1991) 551
von Meerwall, E.D., Diffusion in polymer systems, measured with the pulsed-gradient NMR method 131–133 (1991) 735

Wagemann, H.G., see Bruns 137&138 (1991) 1193
Wagner, H., see Khait 137&138 (1991) 45
Wagner, H., see Siebke 137&138 (1991) 339
Wagner, H., see Ambros 137&138 (1991) 555
Wagner, H., see Horbach 137&138 (1991) 661
Wagner, S., see Isomura 137&138 (1991) 223
Wahnström, G., Dynamic susceptibility in a supercooled liquid: a molecular dynamics study 131–133 (1991) 109
Wakasugi, T., F. Tsukihashi and N. Sano, The solubilities of BN in B_2O_3 bearing melts 135 (1991) 139
Wakizaka, K., see Hishikawa 137&138 (1991) 717
Walker, J., see Johnson 137&138 (1991) 235
Walther, K.L., A. Wokaun, B.E. Handy and A. Baiker, TiO_2/SiO_2 mixed oxide catalysts prepared by sol–gel techniques. Character-

ization by solid state CP/MAS spectroscopy 134 (1991) 47
Walz, F., see Rivas 131–133 (1991) 1235
Wang, B., S.P. Szu and M. Greenblatt, Structure and ionic conductivity in lithium–lead–borate glasses 134 (1991) 249
Wang, B., see Tsai 136 (1991) 227
Wang, C., see Esser 137&138 (1991) 535
Wang, C., see Williams 137&138 (1991) 737
Wang, C., G. Lucovsky and R.J. Nemanich, Deposition and characterization of amorphous and microcrystalline Si, C alloy thin films by a remote plasma-enhanced chemical-vapor deposition process – RPECVD 137&138 (1991) 741
Wang, C., see Zou 137&138 (1991) 1245
Wang, C.H., B.Y. Li, R.W. Rendell and K.L. Ngai, Localized segmental motion and Brillouin scattering in a polymer liquid 131–133 (1991) 870
Wang, D., see Lin 137&138 (1991) 1249
Wang, D.W., see Zhong 134 (1991) 141
Wang, F., H.N. Liu, Y.L. He, A. Schweiger and R. Schwarz, Transient and steady-state optoelectronic properties of μc-Si:H 137&138 (1991) 511
Wang, F., T. Muschik, T. Fischer, M. Bollu, J. Kolodzey and R. Schwarz, Asymmetric degradation of electron and hole μτ-products in a-Si:H/a-SiC:H multilayers under illumination 137&138 (1991) 1143
Wang, H., see Li 140 (1992) 194
Wang, H., see Deng 140 (1992) 307
Wang, J.C., see Bates 131–133 (1991) 1046
Wang, K., see Han 137&138 (1991) 267
Wang, K., D. Han, M. Kemp and M. Silver, Electroluminescence: a study of non-geminate radiative and non-radiative bulk recombination 137&138 (1991) 599
Wang, K., see Dai 140 (1992) 229
Wang, K., see Cheng 140 (1992) 293
Wang, K., see Zan 140 (1992) 331
Wang, S., see Qi 135 (1991) 73
Wang, S.L., see de Seta 137&138 (1991) 851
Wang, Y.X., see Liao 137&138 (1991) 1091
Wang, Z., see Chu 131–133 (1991) 685
Wang, Ying, see Liu, Xiangna 137&138 (1991) 1131
Warne, J.W., J.R. Pilbrow and D.R. MacFarlane, Electron paramagnetic resonance study of the Mn^{2+} ion in a zirconium fluoride glass 140 (1992) 314
Warne, J.W., G. Hanson, J.R. Pilbrow and D.R. MacFarlane, An EPR microwave saturation study of Co^{2+} in a zirconium fluoride-based glass 140 (1992) 319
Warren, W.L., P.M. Lenahan and C.J. Brinker, Experimental evidence for two fundamentally different E′ precursors in amorphous silicon dioxide 136 (1991) 151
Warren, W.L., see Kanicki 137&138 (1991) 291
Wartewig, S., see Alig 131–133 (1991) 808
Wasylak, J., see Samek 140 (1992) 243
Watanabe, M., see Kogo 140 (1992) 233
Weatherly, G.C., see Koo 134 (1991) 226
Webb, C.P., see Main 137&138 (1991) 951
Webb, G., see Gladden 139 (1992) 47
Weigelt, J., see Himmel 136 (1991) 27
Weil, R., see Khait 137&138 (1991) 45
Weil, R., see Khait 137&138 (1991) 145
Weil, R., see Edelman 137&138 (1991) 1063
Weinberg, M.C., Surface nucleated transformation kinetics in 2- and 3-dimensional finite systems 134 (1991) 116
Weiser, K., see Zelikson 137&138 (1991) 455
Weisfield, R.L., see Fujieda 137&138 (1991) 1321
Welland, M.E., see McKinnon 139 (1992) 157
Weller, H.C., see Beyer 137&138 (1991) 37
West, G.F., see Wetenkamp 140 (1992) 19
West, G.F., see Wetenkamp 140 (1992) 25
West, G.F., see Wetenkamp 140 (1992) 35
Wetenkamp, L., Ch. Frerichs, G.F. West and H. Többen, Efficient CW operation of tunable fluorozirconate fibre lasers at wavelengths pumpable with semiconductor laser diodes 140 (1992) 19
Wetenkamp, L., G.F. West and H. Többen, Co-doping effects in erbium^{3+}- and holmium^{3+}-doped ZBLAN glasses 140 (1992) 25
Wetenkamp, L., G.F. West and H. Többen, Optical properties of rare earth-doped ZBLAN glasses 140 (1992) 35
Whitten, J.L., see Lucovsky 137&138 (1991) 119
Wickboldt, P., F. Marques, S.J. Jones, D. Pang, W.A. Turner and W. Paul, Stress measurement of glow discharge produced a-Ge:H thin films and its relation to electronic and structural properties 137&138 (1991) 83
Wiech, G., see Simunek 137&138 (1991) 903
Wieczorek, H., Transient currents in a-Si:H diodes 137&138 (1991) 1309
Wijnen, P.W.J.G., T.P.M. Beelen, C.P.J. Rummens and R.A. van Santen, Diffusion- and reaction-limited aggregation of aqueous silicate solutions 136 (1991) 119
Wild, E., see Könenkamp 137&138 (1991) 239

Wildermuth, D., see Perez-Mendez 137&138 (1991) 1291
Williams, B.D., see Wu 131–133 (1991) 32
Williams, G., Molecular motion in glass-forming systems 131–133 (1991) 1
Williams, G.A., see Saleh 137&138 (1991) 1047
Williams, J.R., see Carter 140 (1992) 153
Williams, J.R., see Carter 140 (1992) 259
Williams, M.J., see Esser 137&138 (1991) 535
Williams, M.J., C. Wang and G. Lucovsky, Photoconductivity and optical stability of intrinsic μc-Si films formed by remote plasma-enhanced chemical-vapor deposition, RPECVD 137&138 (1991) 737
Williamson, D.L., see Mahan 137&138 (1991) 65
Willums, M., see Shaw 137&138 (1991) 1233
Wind, J. and G. Müller, Infrared-induced photoconductivity and electroluminescence in forward-biased a-Si:H pin-diodes 137&138 (1991) 1267
Winer, K., Defect pool model of defect formation in a-Si:H 137&138 (1991) 157
Wokaun, A., see Walther 134 (1991) 47
Wolf, G.H., see Oliver 131–133 (1991) 84
Wong, D.K.Y., see Zhou 140 (1992) 297
Wong, H.K., see Ong 137&138 (1991) 923
Wong, J., see Schneider 136 (1991) 1
Wong, S.P., see Peng 137&138 (1991) 383
Woodward, M., see Marshall 137&138 (1991) 1237
Wraback, M., J. Tauc, D. Pang, W. Paul, J.-K. Lee and E.A. Schiff, Femtosecond studies of photoinduced bleaching and hot carrier dynamics in a-Si:H and a-Ge:H 137&138 (1991) .531
Wright, A.C., see Davis 137&138 (1991) 17
Wronski, C.R., see Fortmann 137&138 (1991) 207
Wronski, C.R., see Li 137&138 (1991) 787
Wu, J.-L., see Philips 137&138 (1991) 927
Wu, L., P.K. Dixon, S.R. Nagel, B.D. Williams and J.P. Carini, Relaxation spectroscopies of viscous liquids 131–133 (1991) 32
Wu, Z.Y. and B. Equer, A-Si:H structure relaxation and boron reactivation 137&138 (1991) 179
Wu, Z.Y., J.M. Siefert and B. Equer, Light induced defects in a-Si:H: saturation or equilibrium? 137&138 (1991) 227
Wu, Z.Y., B. Drevillon, M. Fang, A. Gheorghiu and C. Senemaud, The incorporation of carbon in a-Si:H enhanced by boron doping 137&138 (1991) 863
Wu, Z.Y., J.M. Siefert and B. Equer, The mobility edge lineup of amorphous silicon and silicon–germanium alloys heterojunction 137&138 (1991) 1075
Wunderlich, B., see Xenopoulos 131–133 (1991) 113
Wyrsch, N., F. Finger, T.J. McMahon and M. Vanecek, How to reach more precise interpretation of subgap absorption spectra in terms of deep defect density in a-Si:H 137&138 (1991) 347
Wyrsch, N. and A. Shah, Depth profiles of mobility lifetime products and capture cross-sections in a-Si:H 137&138 (1991) 431

Xanthopoulos, N.I., S.N. Georga and M.N. Pisanias, Transient and ac electrical conductivity in evaporated thin rubidium bromide films 131–133 (1991) 1099
Xenopoulos, A., A.H. Narten, J. Cheng and B. Wunderlich, Investigations of the transitions of some tetraalkylammonium halides by DSC, NMR, and X-ray diffraction 131–133 (1991) 113
Xu, J., see Chen 137&138 (1991) 631
Xu, W., see Liu 137&138 (1991) 507
Xu, W., see Liu 139 (1992) 74
Xu, Y., see Crandall 137&138 (1991) 311
Xu, Z., see Zou 137&138 (1991) 1245

Yagi, T., see Kondo 137&138 (1991) 275
Yajima, T., see Nakayama 137&138 (1991) 1279
Yamada, H., see Tanaka 135 (1991) 211
Yamada, K., see Miyazaki 137&138 (1991) 1119
Yamagishi, T., see Nishii 140 (1992) 199
Yamaguchi, M. and K. Morigaki, The correlation between hydrogen content and electronic properties in a–Si:H 137&138 (1991) 57
Yamaguchi, M., see Li 137&138 (1991) 1115
Yamaguchi, M. and K. Morigaki, The nature of interface defects in a-Si:H/a-$Si_{1-x}N_x$:H multilayers 137&138 (1991) 1135
Yamaguchi, M., M. Kondo, K. Hayashi, H. Nishio and Y. Tawada, Study of the response speed of a high gain a-SiC/a-Si junction photosensor and the spectral response under bias light 137&138 (1991) 1305
Yamaguchi, T., see Furukawa 137&138 (1991) 665
Yamaguchi, T., see Miyagawa 137&138 (1991) 1317
Yamanaka, H., see Anma 135 (1991) 79
Yamane, M., see Chang 134 (1991) 32
Yamane, M., see Anma 135 (1991) 79
Yamasaki, S., see McElheny 137&138 (1991) 243
Yamashita, H., see Matsuoka 135 (1991) 86
Yamashita, M., see Kadono 140 (1992) 103
Yamashita, T., see Nishii 140 (1992) 199
Yan, B., see Liu 137&138 (1991) 507
Yan, B., see Liu 139 (1992) 74

Yan, H., A. Morimoto, M. Kumeda and T. Shimizu, Thermal equilibrium behavior of defect density and conductivity in a-$Si_{1-x}Ge_x$:H alloys 137&138 (1991) 199
Yan, H., see Kumeda 137&138 (1991) 887
Yan, S., see Chen 137&138 (1991) 1263
Yang, L., see Chen 137&138 (1991) 1185
Yang, L. and L.-f. Chen, Thickness dependence of light induced degradation in a-Si:H solar cells 137&138 (1991) 1189
Yano, K., see Furukawa 137&138 (1991) 665
Yano, K., see Iida 137&138 (1991) 1313
Yano, T., see Anma 135 (1991) 79
Yasuda, T., see Ota 139 (1992) 93
Yasui, I., H. Hagihara and H. Inoue, The effect of addition of oxides on the crystallization behavior of aluminum fluoride-based glasses 140 (1992) 130
Yasui, I., see Akasaka 140 (1992) 249
Yasui, I., see Nanba 140 (1992) 269
Yasukawa, M., see Oda 137&138 (1991) 677
Yasumori, A., see Chang 134 (1991) 32
Yasumori, A., see Anma 135 (1991) 79
Ye, A., see Zhang 140 (1992) 220
Yee, A.F., see Liu 131–133 (1991) 492
Yermolovich, I., see Mitsa 137&138 (1991) 959
Yin, Z., see Smith 137&138 (1991) 871
Yin, Z. and F.W. Smith, Studies of the deposition of high quality N-rich amorphous silicon nitride films 137&138 (1991) 879
Ylitalo, C.M., see Fuller 131–133 (1991) 676
Ynduráin, F., see Ordejón 137&138 (1991) 891
Yoko, T., see Tanaka 135 (1991) 211
Yoko, T., see Miyaji 139 (1992) 268
Yokomichi, H. and K. Morigaki, The nature of structural defects and thermal equilibrium effects on doped a-Si:H as elucidated by electron nuclear double resonance measurements 137&138 (1991) 183
Yokoyama, T., see Fujiyama 135 (1991) 198
Yonezawa, F., S. Sakamoto and M. Hori, Ab-initio molecular dynamics simulations of amorphous silicon 137&138 (1991) 135
Yoon, B.-G., see Fritzsche 137&138 (1991) 467
Yoshida, K., H. Uchida, E. Mizobata, H. Hirai and S. Kaneko, High stability metal/a-$SiN_{0.5}$:H/metal diode for LCD application 137&138 (1991) 1287
Yoshimi, M., see Shimizu 137&138 (1991) 1275
Yoshimi, M., T. Ishiko, K. Hattori, H. Okamoto and Y. Hamakawa, Observation of tunneling assisted photocurrent multiplication in a-SiN/a-Si heterojunction 137&138 (1991) 1283
Yoshita, M., see Shimizu 137&138 (1991) 391
Young, C., see Gangopadhyay 137&138 (1991) 859
Young, D.A., see Vanderhaghen 137&138 (1991) 543
Young, R.D. and R. Scholl, Proteins as complex systems 131–133 (1991) 302
Yu, C.C., An alternative model for the low-temperature properties of glasses 131–133 (1991) 310
Yu, C.C. and S.N. Coppersmith, Gravity-induced flow of a structural glass at zero temperature 131–133 (1991) 476
Yu (moderator), H., see Binder 131–133 (1991) 742
Yue, C., see Lin 137&138 (1991) 1249

Zafar, S. and E.A. Schiff, Spin equilibration in hydrogen depleted amorphous silicon 137&138 (1991) 323
Zakery, A., P.J.S. Ewen, C.W. Slinger, A. Zekak and A.E. Owen, Application of chalcogenide glasses in integrated and diffractive optics 137&138 (1991) 1333
Zan, L., C. Zhang, G. Dong and K. Wang, $ZrOCl_2$ for fluoride glass preparation 140 (1992) 331
Zanchetta, J.V., see Henn 131–133 (1991) 1084
Zanchetta, J.V., see Bensimon 134 (1991) 239
Zannoni, C., see Biscarini 131–133 (1991) 1190
Zastrow, U., see Beyer 137&138 (1991) 37
Zastrow, U., see Beyer 137&138 (1991) 111
Zatsepin, A.F., see Arbusov 134 (1991) 208
Zdetsis, A. and G. Froudakis, Energetics and structure of dangling and floating bonds in amorphous silicon 137&138 (1991) 303
Zedlitz, R., see Schubert 137&138 (1991) 195
Zekak, A., see Zakery 137&138 (1991) 1333
Zelikson, M., K. Weiser, J. Salzman and J. Kanicki, Determination of electron and hole mobilities in a-Si:H from photo-electric effects in a waveguide structure 137&138 (1991) 455
Zentai, G., see Popova 135 (1991) 255
Zerda, T.W., see Brodka 139 (1992) 215
Zetzsche, F., see Block 137&138 (1991) 1197
Zhang, B., see Zhang 134 (1991) 296
Zhang, C., see Dai 140 (1992) 229
Zhang, C., see Cheng 140 (1992) 293
Zhang, C., see Zan 140 (1992) 331
Zhang, C., see Zhang 140 (1992) 345
Zhang, D., see Zhang 137&138 (1991) 459
Zhang, F., see Chen 137&138 (1991) 1263
Zhang, H., B. Zhang and Z. Tan, Crystallization of a metallic glass $Cu_{71.3}Ni_{12}P_{16.7}$ 134 (1991) 296
Zhang, K., J. Liu, X. Zhao and H. Li, Heavy halide glasses based on lead bromide and lead iodide 140 (1992) 225

Zhang, K. and C. Zhang, The influence of mixed-ion effects on halide glass formation: a review 140 (1992) 345

Zhang, L., A. Ye, J. Feng and F. Gan, Preparation and properties of $BaNBOF_5$-based quasi-fluoride glasses in the system of $LiF–AlF_3–BaNbOF_5$ 140 (1992) 220

Zhang, L., J. Feng and F. Gan, Electrical conductivity of $LiF–AlF_3–BaNbOF_5$ quasi-fluoride glasses 140 (1992) 238

Zhang, M., see Nakayama 137&138 (1991) 669

Zhang, P., see Deng 140 (1992) 307

Zhang, Q., X. Liao, C. Hsia, G. Kong and D. Zhang, A new result in transient current experiment on a-Si:H p/i/n and n/i/n devices 137&138 (1991) 459

Zhang, Q., see Liao 137&138 (1991) 1091

Zhang, Q., see Zou 137&138 (1991) 1245

Zhang, S., see Zou 137&138 (1991) 1245

Zhang, X.H., see Ma 135 (1991) 49

Zhang, X.H., see Ma 140 (1992) 209

Zhang, Z., N. Soga and K. Hirao, Water corrosion behavior of densified glass. I. Silicate glass 135 (1991) 55

Zhang, Z., K. Hirao and N. Soga, Water corrosion behavior of densified glass. II. Borate glasses 135 (1991) 62

Zhang, Z.H., H.L. Ma, G. Fonteneau and J. Lucas, Improvement of tellurium halide glasses for IR fiber optics 140 (1992) 47

Zhao, B., see Zou 137&138 (1991) 1245

Zhao, X., see Zhang 140 (1992) 225

Zhao, Zhouyin, see Liu, Xiangna 137&138 (1991) 1131

Zheng, H.D., see Liao 137&138 (1991) 1091

Zhilinskaya, E.A., N.Kh. Valeev and A.K. Oblasov, EPR study of Ti-doped Ge–S glasses 136 (1991) 76

Zhong, Z.T., D.W. Wang, X.B. Liao, S.M. Mou, C.F. Li and Y. Fan, Interfacial formation process and reactions between Au and hydrogenated amorphous Si studied by XPS and AES 134 (1991) 141

Zhou, W., D.E. Sayers, M.A. Paesler and D. Raoux, Intermediate range order – a differential anomalous X-ray scattering study in a-As_2S_3 137&138 (1991) 127

Zhou, Z., see Zou 137&138 (1991) 1245

Zhou, Z. and D.R. MacFarlane, Determination of transition metals in molten fluoride materials using electrochemical methods 140 (1992) 215

Zhou, Z., P.J. Newman, D.K.Y. Wong and D.R. MacFarlane, Electrochemical purification of fluoride melts 140 (1992) 297

Zhu, M., M.B. von der Linden, J. Bezemer, R.E.I. Schropp and W.F. van der Weg, Further study of the determination of the density of gap states by thermally stimulated conductivity 137&138 (1991) 355

Zhu, Y.-Q., see Nogami 134 (1991) 71

Zmeskal, O., see Schauer 137&138 (1991) 1241

Zollner, S., see Pierz 137&138 (1991) 107

Zorn, R., see Frick 131–133 (1991) 169

Zou, X., Z. Xu, Z. Zhou, S. Zhang, B. Zhao, R. Liu, Q. Zhang, C. Wang, C. Chen and Y. Hamakawa, Depression of the off-current by n/i buffer layer in a-Si TFT 137&138 (1991) 1245

Zukotynski, S., see Koo 134 (1991) 226

Żumer, S., see Blinc 131–133 (1991) 125

Zvyagin, I.P., see Belyaev 137&138 (1991) 607

Journal of Non-Crystalline Solids, Subject index Vols. 131–140 (1991–1992) 43–89
North-Holland, Amsterdam

Subject index to volumes 131–140

Absorption
Amorphous Solids, Boron, Luminescence, Optical Properties 137&138 (1991) 919
Amorphous Solids, Multilayers, Silicon Nitride, Superlattices 137&138 (1991) 1115
Amorphous Solids, Optical Properties, Stäbler–Wronski Effect, Thin Films 137&138 (1991) 623
Contacts, Gap States, Light Scattering, Photoconductivity 137&138 (1991) 615
Defects, Luminescence, Recombination 137&138 (1991) 591
Electronic Conductivity, Metastability, Defects, Electrical Properties and Relaxation 137&138 (1991) 511
Interfaces, Multilayers, Electroabsorption 137&138 (1991) 1131
Optical Properties, Luminescence 140 (1992) 243
Solar Cells, Optical Properties, Light Scattering 137&138 (1991) 1165

Acoustic Properties
Amorphous Solids, Medium-Range Order, Modelling, Photoinduced Effects 137&138 (1991) 967

Aerogels
Sol–Gel Processes 136 (1991) 111

Alloys
Amorphous Solids, Deposition Techniques, Thin Films 137&138 (1991) 689
Amorphous Solids, Electrical Properties, Infra-red Absorption 137&138 (1991) 911
Amorphous Solids, Localization, Polymers, Transport Properties – Solids 137&138 (1991) 927
Auger Electron Spectroscopy, Density of States, Electronic Structure, Photo-emission 137&138 (1991) 851
Carbon, Density of States, Electronic Structure, Gap States 137&138 (1991) 867
Carbon, Injection of Carriers, Photoresponse, Photo-deposition 137&138 (1991) 1313
Deposition Techniques, Hydrogen Effects 137&138 (1991) 653
Optical Properties, Fluorescence Spectra, Optical Fibers 140 (1992) 233
Short-Range Order, X-ray Diffraction, Glasses Containing Transition Metal Ions 135 (1991) 248
Thermodynamics, Modelling 139 (1992) 107

Alumina
Electrical Properties and Relaxation, Nuclear Magnetic Resonance 131–133 (1991) 1011
Glass Formation 134 (1991) 176

Amorphization
Computer Simulation, Electric Properties, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 135
Crystallization, Microstructure, Optical Properties, Silicon Alloys 137&138 (1991) 635

Amorphous Solids
Absorption, Boron, Luminescence, Optical Properties 137&138 (1991) 919
Absorption, Multilayers, Silicon Nitride, Superlattices 137&138 (1991) 1115
Absorption, Optical Properties, Stäbler–Wronski Effect, Thin Films 137&138 (1991) 623
Acoustic Properties, Medium-Range Order, Modelling, Photoinduced Effects 137&138 (1991) 967
Alloys, Deposition Techniques, Thin Films 137&138 (1991) 689
Alloys, Electrical Properties, Infra-red Absorption 137&138 (1991) 911
Annealing Effects, Effusion, Hydrogen in Glass, Interfaces 137&138 (1991) 1139
Applications, Chalcogenides, Diffusion 137&138 (1991) 1341
Applications, Photoconductivity, Silicon 137&138 (1991) 1317
Calorimetry, Semiconductors, Silicon Alloys 137&138 (1991) 87
Capacitance Methods, Density of States, Doping 137&138 (1991) 311
Capacitance Methods, Gap States, Interfaces, Silicon Nitride 137&138 (1991) 1051

Amorphous Solids *(continued)*
Carbon, Density of States, Doping, Hopping 137&138 (1991) 831
Carbon, Tetrahedral Materials, Density of States, Localization 137&138 (1991) 825
Carbon, Thin Films 137&138 (1991) 839
Chalcogenides, Defects, Fluorescence Spectra, Photoinduced Effects 137&138 (1991) 997
Chalcogenides, Diffusion, Ionic Conductivity, Photoinduced Effects 137&138 (1991) 1021
Chalcogenides, Diffusion, Nuclear Magnetic Resonance 137&138 (1991) 1047
Chalcogenides, Etching, Photoinduced Effects, Surface Reactions 137&138 (1991) 1035
Chalcogenides, EXAFS, Medium-Range Order, Modelling 137&138 (1991) 127
Chalcogenides, Optical Properties, Photoinduced Effects, Structure 137&138 (1991) 977
Chalcogenides, Optical Properties, X-ray Diffraction, XPS 137&138 (1991) 963
Chalcogenides, Photoinduced Effects, Relaxation, Theory 137&138 (1991) 973
Computer Simulation, Density of States, Devices, Transient Effects 137&138 (1991) 1233
Computer Simulation, Optical Properties, Reflectivity, Secondary Ion Mass Spectroscopy 137&138 (1991) 1095
Conduction Band, Defects, Density of States, Electronic Structure, Gap States 137&138 (1991) 387
Conduction Band, Density of States, Theory, Valence Band 137&138 (1991) 307
Contacts, Electron Diffraction, Silicon, Surface Reactions 137&138 (1991) 1063
Crystallization, Deposition Techniques, Oxides, Plasma Deposition, Silicon, Thin Films, X-ray Diffraction 137&138 (1991) 733
Dangling Bonds, Electron Spin Resonance, Photoinduced Effects, Silicon 137&138 (1991) 1
Dangling Bonds, Recombination, Stäbler–Wronski Effect, Trapping 137&138 (1991) 243
Defects, Glow Discharge, Plasma Deposition, Silicon 137&138 (1991) 795
Defects, Hydrogen Effects, Semiconductors, Silicon 137&138 (1991) 17
Defects, Multilayers, Noise, Transport Properties – Solids 137&138 (1991) 1107
Density of States, Doping, Electrical Properties and Relaxation, Equilibrium 137&138 (1991) 175
Density of States, Electronic Structure, Molecular Dynamics 137&138 (1991) 149
Density of States, Optical Properties, Ellipsometry, Hydrogen Effects 137&138 (1991) 331
Density of States, Photoresponse, Silicon Alloys 137&138 (1991) 847
Density of States, Silicon, Interfaces 137&138 (1991) 447
Density of States, Surface Properties, Stäbler–Wronski Effect, Silicon 137&138 (1991) 339
Deposition Techniques, Electrical Properties, Hydrogen Effects 137&138 (1991) 721
Deposition Techniques, Fermi Level 137&138 (1991) 761
Deposition Techniques, Germania, Kinetics, Plasma Deposition, Thin Films 137&138 (1991) 779
Deposition Techniques, Hydrogenation, Photoinduced Effects, Thin Films 137&138 (1991) 685
Deposition Techniques, Photodeposition, Silicon 137&138 (1991) 665
Deposition Techniques, Silicon 137&138 (1991) 661
Diffusion, Defects, Doping, Structure 137&138 (1991) 107
Diffusion, Doping, Silicon Alloys 137&138 (1991) 111
Diffusion, Effusion, Hydrogen Effects, Hydrogen in Glass 137&138 (1991) 53
Diffusion, Hydrogen Effects, Germanium, Silicon Alloys 137&138 (1991) 37
Diffusion, Hydrogenation, Dangling Bonds 137&138 (1991) 21
Diodes, Electroluminescence, Injection of Carriers, Silicon 137&138 (1991) 595
Doping, Electrical Properties, Photoinduced Effects 137&138 (1991) 279
Electrical Properties and Relaxation, Experimental Techniques, Growth Kinetics, Kinetics 137&138 (1991) 487
Electrical Properties and Relaxation, Gap States, Silicon, Transient Effects 137&138 (1991) 319
Electrical Properties and Relaxation, Optical Properties, Pressure Effects, Semiconductors, Silicon Alloys 137&138 (1991) 931
Electron Spin Resonance, Gap States, Metastability, Silicon 137&138 (1991) 183
Electron–Lattice Interactions, Luminescence, Multilayers, Silicon 137&138 (1991) 1123
Electronic Conductivity, Photoresponse, Thin Films, Transient Effects 137&138 (1991) 463
Electronic Structure, Silicon Alloys 137&138 (1991) 299
Ellipsometry, Growth Kinetics, Nucleation, Silicon 137&138 (1991) 787
Equilibrium, Dangling Bonds, Kinetics 137&138 (1991) 207
Equilibrium, Interfaces, Metastability, Thin Film Transistors 137&138 (1991) 1221
Experimental Techniques, Photoresponse, Silicon, Transient Effects 137&138 (1991) 479
Field Effect, Hydrogenation, Silicon, Thin Films 137&138 (1991) 1209

Amorphous Solids *(continued)*
Field Effect, Liquid Crystal Displays, Interfaces, Thin Film Transistors 137&138 (1991) 1245
Forming, Memory Behaviour, Switching, Silicon 137&138 (1991) 499
Forming, Memory Behaviour, Switching, Silicon 137&138 (1991) 1257
Fractals, Light Scattering, Raman Spectra, Silicon 137&138 (1991) 103
Gap States, Metastability, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 835
Gap States, Photoconductivity, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 1169
Gap States, Photomodulation, Semiconductors 137&138 (1991) 251
Gap States, Photomodulation, Silicon Alloys 137&138 (1991) 855
Germanium, Electronic Structure, Photoresponse, Optical Properties 137&138 (1991) 803
Germanium, Hydrogen Effects, Microwave, Plasma Deposition 137&138 (1991) 749
Growth Kinetics, Hydrogenation, Microstructure, Modelling 137&138 (1991) 649
Hopping, Multilayers, Transport Properties – Solids 137&138 (1991) 1111
Hydrogen Effects, Glow Discharge, Silicon, Structure 137&138 (1991) 673
Hydrogen Effects, Semiconductors, Silicon Alloys 137&138 (1991) 95
Hydrogen Effects, Silicon Alloys, Electrical Properties and Relaxation, Electron Diffraction 137&138 (1991) 907
Hydrogenation, Optical Properties 137&138 (1991) 57
III–V semiconductors, Dangling Bonds, EXAFS, X-ray Diffraction 137&138 (1991) 131
Interfaces, Multilayers, Optical Properties, Glass Ceramics 137&138 (1991) 1103
Junctions, Transient Effects 137&138 (1991) 459
Kinetics, Hydrogenation, Silicon, Stability 137&138 (1991) 45
Localization, Alloys, Polymers, Transport Properties – Solids 137&138 (1991) 927
Metastability, Semiconductors, Tetrahedral Materials 137&138 (1991) 709
Mobility, Photo Voltage, Silicon, Transport Properties – Solids 137&138 (1991) 455
Molecular Dynamics, Kinetics, Silicon 137&138 (1991) 145
Multilayers, Optical Properties, Superlattices 137&138 (1991) 1099
Optical Properties, Hydrogen Effects, Interfaces, Gap States 137&138 (1991) 1071
Optical Properties, Phonons, Recombination, Transient Effects 137&138 (1991) 543
Optical Properties, Phonons, Transport Properties – Solids, Transient Effects 137&138 (1991) 527
Optical Properties, Refractive Index 137&138 (1991) 619
Photo-emission, Tin Oxide, Interfaces, Hydrogen Effects 137&138 (1991) 1091
Photoconductivity, Metastability, Growth Kinetics 137&138 (1991) 705
Photoinduced Effects, Recombination, Stäbler–Wronski Effect, Silicon 137&138 (1991) 231
Plasma Deposition, Electronic Structure, Photo-emission 137&138 (1991) 875
Plasma Deposition, Silicon Alloys, Surface Reactions, Thin Films 137&138 (1991) 639
Recombination, Electron Spin Resonance, Silicon, Luminescence 137&138 (1991) 551
Recombination, Luminescence, Kinetics 137&138 (1991) 571
Scanning Electron Microscopy, Secondary Electron Emission, Thin Film Transistors, Experimental Techniques 137&138 (1991) 1237
Semiconductors, Diodes, Liquid Crystal Displays, Light Modulators, Structure 137&138 (1991) 1325
Silicon, Density of States, Field Effect, Microwave 137&138 (1991) 1241
Silicon, Diffusion, Structure 137&138 (1991) 29
Silicon, Molecular Orbital Calculation, Hydrogen Effects, Theory 137&138 (1991) 295
Silicon, Plasma Deposition, Short-Range Order 137&138 (1991) 115
Silicon, Solar Cells, Stability 137&138 (1991) 1161
Silicon Alloys, Molecular Dynamics 137&138 (1991) 153
Silicon Alloys, Thin Films, Transport Properties – Solids 134 (1991) 133
Solar Cells, Diodes, Junctions, Photo Voltage, Computer Simulation 137&138 (1991) 1205
Solar Cells, Silicon, Photoresponse, Modelling 137&138 (1991) 1193
Solar Cells, Time-of-Flight, Transport Properties – Devices, Trapping 137&138 (1991) 1173
Solar Cells, Time-of-Flight, Transport Properties – Devices, Trapping 137&138 (1991) 1177
Stability, Structure, Annealing Effects, Electronic Conductivity 137&138 (1991) 239
Structure, Radiation Effects, Semiconductors, Deposition Techniques 137&138 (1991) 657
Structure, Small Angle Electron Scattering, Deposition Techniques 137&138 (1991) 65
Theory, Transport Properties – Solids, Electronic Conductivity, Semiconductors 137&138 (1991) 423
Thin Film Transistors, Devices 137&138 (1991) 1249

Annealing Effects
Amorphous Solids, Effusion, Hydrogen in Glass, Interfaces 137&138 (1991) 1139
Dangling Bonds, Doping, Equilibrium, Thin Film Transistors 137&138 (1991) 163
Dangling Bonds, Gap States, Photoinduced Effects, Time-Resolved Spectroscopy 137&138 (1991) 535
Devices, Silicon Nitride, Stability 137&138 (1991) 1287
Germanium, Hydrogenation, Diffusion 137&138 (1991) 41
Microstructure, Plasma Deposition, Structure, Silicon 137&138 (1991) 681
Stability, Stäbler–Wronski Effect, Defects, Lasers 137&138 (1991) 223
Stability, Structure, Amorphous Solids, Electronic Conductivity 137&138 (1991) 239

Applications
Amorphous Solids, Chalcogenides, Diffusion 137&138 (1991) 1341
Amorphous Solids, Photoconductivity, Silicon 137&138 (1991) 1317
Chalcogenides, Optical Properties, Photoinduced Effects 137&138 (1991) 1333
Diodes, Detectors 137&138 (1991) 1291

Auger Electron Spectroscopy
Alloys, Density of States, Electronic Structure, Photo-emission 137&138 (1991) 851
Diffusion, Hydrogen Effects, Surface Reactions 137&138 (1991) 1087
Sputtering 136 (1991) 126

Bonding
Dangling Bonds, Electrical Properties and Relaxation, Electron–Lattice Interactions, Metastability 137&138 (1991) 219
Doping, Hydrogen Effects, Plasma Deposition, Silicon Alloys 137&138 (1991) 119
Silicon Alloys, Structure, Optical Properties, EXAFS 137&138 (1991) 899

Borates
Electronic Structure, Optical Properties, Oxidation Reduction 134 (1991) 147
Infra-red Absorption, Crystallization 131–133 (1991) 1068
Infra-red Absorption, Ionic Conductivity 131–133 (1991) 1089
Infra-red Absorption, Structure 131–133 (1991) 1092
Pressure Effects, Density, Reactions 135 (1991) 62

Boron
Amorphous Solids, Absorption, Luminescence, Optical Properties 137&138 (1991) 919
Density of States, Optical Properties 137&138 (1991) 923
Structure, Relaxation, Diffusion, Hydrogen Effects 137&138 (1991) 179

Calorimetry
Amorphous Solids, Semiconductors, Silicon Alloys 137&138 (1991) 87

Capacitance Methods
Amorphous Solids, Density of States, Doping 137&138 (1991) 311
Amorphous Solids, Gap States, Interfaces, Silicon Nitride 137&138 (1991) 1051
Doping, Devices, Plasma Deposition, Silicon 137&138 (1991) 1059
Germanium, Silicon Alloys, Density of States, Electrical Properties and Relaxation 137&138 (1991) 809
Hopping, Photoconductivity, Thin Films 137&138 (1991) 419

Carbon
Alloys, Density of States, Electronic Structure, Gap States 137&138 (1991) 867
Alloys, Injection of Carriers, Photoresponse, Photo-deposition 137&138 (1991) 1313
Amorphous Solids, Density of States, Doping, Hopping 137&138 (1991) 831
Amorphous Solids, Tetrahedral Materials, Density of States, Localization 137&138 (1991) 825
Amorphous Solids, Thin Films 137&138 (1991) 839
Catalysis, Composites, Ellipsometry, XPS 137&138 (1991) 863
Electroluminescence, Multilayers 137&138 (1991) 1275
Thin Films, Composites, Electronic Structure, Optical Properties 136 (1991) 53

Catalysis
Carbon, Composites, Ellipsometry, XPS 137&138 (1991) 863
Oxides, Sol–Gel Processes, Nuclear Magnetic Resonance 134 (1991) 47

Chalcogenides
Amorphous Solids, Applications, Diffusion 137&138 (1991) 1341
Amorphous Solids, Defects, Fluorescence Spectra, Photoinduced Effects 137&138 (1991) 997
Amorphous Solids, Diffusion, Ionic Conductivity, Photoinduced Effects 137&138 (1991) 1021
Amorphous Solids, Diffusion, Nuclear Magnetic Resonance 137&138 (1991) 1047
Amorphous Solids, Etching, Photoinduced Effects, Surface Reactions 137&138 (1991) 1035

Chalcogenides *(continued)*
Amorphous Solids, EXAFS, Medium-Range Order, Modelling 137&138 (1991) 127
Amorphous Solids, Optical Properties, Photoinduced Effects, Structure 137&138 (1991) 977
Amorphous Solids, Optical Properties, X-ray Diffraction, XPS 137&138 (1991) 963
Amorphous Solids, Photoinduced Effects, Relaxation, Theory 137&138 (1991) 973
Applications, Optical Properties, Photoinduced Effects 137&138 (1991) 1333
Chemical Modification, Impurities 134 (1991) 239
Coatings, Glass Transition, Crystallization 139 (1992) 177
Crystallization, Glass Transition, Growth Kinetics 136 (1991) 67
Crystallization, Liquids, Phase Transition, Time-Resolved Spectroscopy 137&138 (1991) 1005
Crystallization, Semiconductors, Differential Thermal Analysis 139 (1992) 129
Defects, Dynamic Fatigue, Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 1017
Defects, Optical Properties, Photoinduced Effects, Polarization 137&138 (1991) 993
Density, Structure 134 (1991) 94
Density of States, Internal Friction 137&138 (1991) 989
Density of States, Photoconductivity, Recombination, Transient Effects 137&138 (1991) 951
Detectors, Electrophotography, Multilayers, Silicon 137&138 (1991) 1151
Dielectric Properties, Internal Friction 131–133 (1991) 1072
Differential Thermal Analysis, Relaxation 131–133 (1991) 479
Diffusion, Photoinduced Effects 137&138 (1991) 1027
Doping, Electron Spin Resonance, Electrical Properties 137&138 (1991) 1043
Electron Spin Resonance, Optical Properties, Photoinduced Effects, XPS 137&138 (1991) 985
Electronic Conductivity, Thermoelectric Power, Electrical Properties, Photoinduced Effects 137&138 (1991) 1039
EXAFS, Structure, Germanates 139 (1992) 137
Glass Formation, EXAFS, Structure, X-ray Diffraction 137&138 (1991) 123
Glass Transition, Relaxation 131–133 (1991) 524
Glasses Containing Transition Metal Ions, Electron Spin Resonance 136 (1991) 76
Halide Glasses, Glass Transition, Optical Properties 135 (1991) 49
Impurities 139 (1992) 121
Infra-red Absorption, Hydrogen Effects, Fibers 140 (1992) 324
Kinetics, Photoinduced Effects, Thin Films 137&138 (1991) 1013
Lasers, Optical Properties 139 (1992) 67
Mobility, Photoconductivity, Devices, Thermal Properties 137&138 (1991) 947
Mössbauer Effect, Structure, Short-Range Order 139 (1992) 231
Nuclear Magnetic Resonance, Structure, Glass Transition 135 (1991) 171
Optical Properties, Phase Transition, Raman Spectra, Luminescence 137&138 (1991) 959
Photoinduced Effects, Optical Properties 135 (1991) 37
Photoinduced Effects, Optical Properties 137&138 (1991) 981
Photoinduced Effects, Transport Properties – Solids 137&138 (1991) 1031
Pressure Effects, Phase Separation, Glass Formation 135 (1991) 255
Quantum Wells, Silica, Electron Microscopy, Microstructure 134 (1991) 233
Relaxation, Fluorides, Glass Transition 131–133 (1991) 182
Relaxation, Glass Transition 140 (1992) 209
Silicon, Time-of-Flight, Transport Properties – Solids 137&138 (1991) 401
Thin Films, Surface Properties, Electron Microscopy 139 (1992) 222
Thin Films, X-ray Diffraction, Structure 136 (1991) 43
Time-of-Flight, Trapping, Photoreceptor 137&138 (1991) 943
Transport Properties – Solids, Halide Glasses, Electric Properties 136 (1991) 81
XPS, Relaxation, Thermal Properties 131–133 (1991) 1041

Chalcohalides
Defects, Density of States 137&138 (1991) 955
Fibers, Fluorides, Glass Transition 140 (1992) 47
Glass Formation, Infra-red Absorption, Raman Spectra 136 (1991) 205
Infra-red Absorption, Raman Spectra, Structure 134 (1991) 86

Chemical Durability
Chemical Modification, Halide Glasses 140 (1992) 41
Crystallization, Molecular Dynamics 140 (1992) 130
Diffusion 140 (1992) 107
Glass Formation, Mechanical Properties 140 (1992) 87
Glass Formation, X-ray Diffraction 140 (1992) 62
Halide Glasses 140 (1992) 112
Infra-red Absorption, Differential Thermal Analysis 140 (1992) 225
Optical Properties 140 (1992) 220

Chemical Modification
Chalcogenides, Impurities 134 (1991) 239
Electron Spin Resonance, Oxides, Defects 135 (1991) 122
Glass Ceramics, Porosity, Phosphates 139 (1992) 86
Glass Ceramics, Porosity, Phosphates 139 (1992) 90
Glasses Containing Transition Metal Ions 140 (1992) 331
Halide Glasses, Chemical Durability 140 (1992) 41
Hydrogen Effects 140 (1992) 57
Sol–Gel Processes, Oxides 134 (1991) 32
Sol–Gel Processes, Sol–Gel Precursors, Oxides 134 (1991) 23
Stability 140 (1992) 82

Coatings
Chalcogenides, Glass Transition, Crystallization 139 (1992) 177
Fracture, Strength, Sol–Gel Processes 139 (1992) 185
Sol–Gel Precursors, X-ray Absorption, Crystallization 139 (1992) 198
Sol–Gel Processes 134 (1991) 58

Colloids
Dielectric Properties 131–133 (1991) 238
Glass Transition, Liquids 131–133 (1991) 289
Polymers, Electrical Properties and Relaxation 131–133 (1991) 341

Composites
Carbon, Catalysis, Ellipsometry, XPS 137&138 (1991) 863
Electronic Conductivity, Sol–Gel Precursors 136 (1991) 97
Thin Films, Carbon, Electronic Structure, Optical Properties 136 (1991) 53

Computer Simulation
Amorphization, Electric Properties, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 135
Amorphous Solids, Density of States, Devices, Transient Effects 137&138 (1991) 1233
Amorphous Solids, Optical Properties, Reflectivity, Secondary Ion Mass Spectroscopy 137&138 (1991) 1095
Defects, Gap States, Photoconductivity, Recombination 137&138 (1991) 351
Defects, Heterojunctions, Interfaces, Modelling 137&138 (1991) 1201
Density of States, Photoconductivity, Time-of-Flight 137&138 (1991) 359
Density of States, Silica, Thin Films, X-ray Emission 137&138 (1991) 903
Diffusion, Time-of-Flight 137&138 (1991) 439
Germanium, Hopping, Photoconductivity, Semiconductors 137&138 (1991) 843
Hopping, Mobility, Monte Carlo simulations, Percolation 137&138 (1991) 415
Photoconductivity, Silicon Alloys, Transient Effects, Trapping 137&138 (1991) 547
Solar Cells, Diodes, Junctions, Photo Voltage, Amorphous Solids 137&138 (1991) 1205

Conduction Band
Amorphous Solids, Defects, Density of States, Electronic Structure, Gap States 137&138 (1991) 387
Amorphous Solids, Density of States, Theory, Valence Band 137&138 (1991) 307

Conductivity
Electrical Properties, Percolation, Theory 135 (1991) 219

Contacts
Absorption, Gap States, Light Scattering, Photoconductivity 137&138 (1991) 615
Electron Diffraction, Silicon, Surface Reactions, Amorphous Solids 137&138 (1991) 1063

Crystallization
Amorphization, Microstructure, Optical Properties, Silicon Alloys 137&138 (1991) 635
Amorphous Solids, Deposition Techniques, Oxides, Plasma Deposition, Silicon, Thin Films, X-ray Diffraction 137&138 (1991) 733
Chalcogenides, Coatings, Glass Transition 139 (1992) 177
Chalcogenides, Glass Transition, Growth Kinetics 136 (1991) 67
Chalcogenides, Liquids, Phase Transition, Time-Resolved Spectroscopy 137&138 (1991) 1005
Chalcogenides, Semiconductors, Differential Thermal Analysis 139 (1992) 129
Chemical Durability, Molecular Dynamics 140 (1992) 130
Coatings, Sol–Gel Precursors, X-ray Absorption 139 (1992) 198
Crystallization 134 (1991) 123
Dielectric Properties, Polymers, Glass Transition 131–133 (1991) 1149
Glass Formation, Impurities 140 (1992) 229
Halide Glasses, Glass Transition, Thermal Properties 140 (1992) 1
Hydrogen Effects, Infra-red Absorption, Raman Spectra 137&138 (1991) 91
Hydrogen Effects, Lasers, Microstructure, Raman Spectra, Silicon 137&138 (1991) 729
Infra-red Absorption, Borates 131–133 (1991) 1068
Metallic Glasses, Phase Separation 134 (1991) 296

Crystallization *(continued)*
Metallic Glasses, X-ray Diffraction 135 (1991) 265
Modelling 134 (1991) 116
Nucleation 140 (1992) 16
Optical Fibers, Glass Formation, Impurities 140 (1992) 293
Optical Properties, Fibers 140 (1992) 301
Optical Properties, Photoinduced Effects, Silicon 137&138 (1991) 1297
Oxides 140 (1992) 159
Oxides, Phase Separation 135 (1991) 95
Oxides, Sol–Gel Processes 134 (1991) 293
Relaxation 131–133 (1991) 1218
Silica, Ion Implantation, Kinetics 134 (1991) 129
Thermal Properties 140 (1992) 275
Thermodynamics, Elastic Properties, Thin Films 137&138 (1991) 725
Thin Films, Semiconductors, Infrared Absorption 134 (1991) 226

Dangling Bonds
Amorphous Solids, Electron Spin Resonance, Photoinduced Effects, Silicon 137&138 (1991) 1
Amorphous Solids, Equilibrium, Kinetics 137&138 (1991) 207
Amorphous Solids, III–V semiconductors, EXAFS, X-ray Diffraction 137&138 (1991) 131
Amorphous Solids, Recombination, Stäbler–Wronski Effect, Trapping 137&138 (1991) 243
Annealing Effects, Doping, Equilibrium, Thin Film Transistors 137&138 (1991) 163
Annealing Effects, Gap States, Photoinduced Effects, Time-Resolved Spectroscopy 137&138 (1991) 535
Bonding, Electrical Properties and Relaxation, Electron–Lattice Interactions, Metastability 137&138 (1991) 219
Defects, Density of States 137&138 (1991) 335
Defects, Density of States 137&138 (1991) 347
Defects, Electron Spin Resonance, Tetrahedral Materials 137&138 (1991) 323
Defects, Kinetics, Metastability 137&138 (1991) 203
Defects, Silicon, Stability, Stäbler–Wronski Effect 137&138 (1991) 215
Density of States, Gap States 137&138 (1991) 363
Diffusion, Hydrogen in Glass, Defects, Metastability 137&138 (1991) 33
Diffusion, Hydrogenation, Amorphous Solids 137&138 (1991) 21
Electrical Properties and Relaxation, Electron Spin Resonance, Equilibrium, Silicon Alloys 137&138 (1991) 199
Electron Spin Resonance, Gap States, Metastability, Silicon Nitride 137&138 (1991) 291
Electron Spin Resonance, Impurities, Silicon, Stäbler–Wronski Effect 137&138 (1991) 391
Electron Spin Resonance, Pressure Effects, Metastability 137&138 (1991) 275
Equilibrium, Gap States, Density of States, Metastability 137&138 (1991) 315
Equilibrium, Tails, Stability 137&138 (1991) 191
Noise, Time-of-Flight, Tunneling 137&138 (1991) 495
Theory, Floating Bonds 137&138 (1991) 303

Defects
Absorption, Electronic Conductivity, Metastability, Electrical Properties and Relaxation 137&138 (1991) 511
Absorption, Luminescence, Recombination 137&138 (1991) 591
Amorphous Solids, Chalcogenides, Fluorescence Spectra, Photoinduced Effects 137&138 (1991) 997
Amorphous Solids, Conduction Band, Density of States, Electronic Structure, Gap States 137&138 (1991) 387
Amorphous Solids, Diffusion, Doping, Structure 137&138 (1991) 107
Amorphous Solids, Glow Discharge, Plasma Deposition, Silicon 137&138 (1991) 795
Amorphous Solids, Hydrogen Effects, Semiconductors, Silicon 137&138 (1991) 17
Amorphous Solids, Multilayers, Noise, Transport Properties – Solids 137&138 (1991) 1107
Chalcogenides, Dynamic Fatigue, Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 1017
Chalcogenides, Optical Properties, Photoinduced Effects, Polarization 137&138 (1991) 993
Chalcohalides, Density of States 137&138 (1991) 955
Computer Simulation, Gap States, Photoconductivity, Recombination 137&138 (1991) 351
Computer Simulation, Heterojunctions, Interfaces, Modelling 137&138 (1991) 1201
Dangling Bonds, Density of States 137&138 (1991) 335
Dangling Bonds, Density of States 137&138 (1991) 347
Dangling Bonds, Electron Spin Resonance, Tetrahedral Materials 137&138 (1991) 323
Dangling Bonds, Silicon, Stability, Stäbler–Wronski Effect 137&138 (1991) 215
Density of States, Equilibrium, Metastability, Silicon 137&138 (1991) 259
Density of States, Modelling 139 (1992) 179
Diffusion, Hydrogen in Glass, Metastability, Dangling Bonds 137&138 (1991) 33
Dynamic Fatigue, Optical Properties, Photoconductivity, Polymers 137&138 (1991) 915
Electron Spin Resonance, Oxides, Chemical Modification 135 (1991) 122

Defects *(continued)*
Electron Spin Resonance, Silicon Nitride 137&138 (1991) 887
Equilibrium, Hydrogen Effects, Photoinduced Effects, Thermodynamics 137&138 (1991) 157
Experimental Techniques, Hydrogen Effects, Photo Voltage, Silicon 137&138 (1991) 79
Hydrogen Effects, Interfaces, Oxides, Stability 137&138 (1991) 1079
Hydrogen Effects, Microstructure, Silicon Nitride, Stability 137&138 (1991) 61
Interfaces, Multilayers, Optical Properties, Photoinduced Effects 137&138 (1991) 1135
Interfaces, Stäbler–Wronski Effect, Mobility 137&138 (1991) 1143
Kinetics, Metastability, Dangling Bonds 137&138 (1991) 203
Metastability, Electronic Conductivity, Stäbler–Wronski Effect 137&138 (1991) 263
Optical Properties, Raman Spectra 140 (1992) 307
Photoinduced Effects, Metastability, Multilayers, Silicon Alloys, Stäbler–Wronski Effect 137&138 (1991) 287
Photoinduced Effects, Recombination, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 255
Recombination, Luminescence, Microwave 137&138 (1991) 583
Silica, Electron Spin Resonance, Raman Spectra 136 (1991) 151
Silica, Lasers, Electron Spin Resonance 131–133 (1991) 1240
Stability, Stäbler–Wronski Effect, Annealing Effects, Lasers 137&138 (1991) 223

Density
Chalcogenides, Structure 134 (1991) 94
Dielectric Properties, Light Scattering, Polymers 131–133 (1991) 144
Hydrogenation, Glass Transition, Refractive Index 140 (1992) 52
Light Scattering, Oxides, Glass Transition 131–133 (1991) 88
Modelling, Oxides, Refractive Index 139 (1992) 93
Oxides, Refractive Index, Glass Formation 135 (1991) 105
Pressure Effects, Borates, Reactions 135 (1991) 62
Radiation Effects, Silica 136 (1991) 163
Sol–Gel Processes, Silica, Infra-red Absorption 135 (1991) 29
Viscosity, Electrical Properties and Relaxation, Fluorides 140 (1992) 285

Density of States
Alloys, Carbon, Electronic Structure, Gap States 137&138 (1991) 867
Amorphous Solids, Capacitance Methods, Doping 137&138 (1991) 311
Amorphous Solids, Carbon, Doping, Hopping 137&138 (1991) 831
Amorphous Solids, Carbon, Tetrahedral Materials, Localization 137&138 (1991) 825
Amorphous Solids, Computer Simulation, Devices, Transient Effects 137&138 (1991) 1233
Amorphous Solids, Conduction Band, Defects, Electronic Structure, Gap States 137&138 (1991) 387
Amorphous Solids, Conduction Band, Theory, Valence Band 137&138 (1991) 307
Amorphous Solids, Doping, Electrical Properties and Relaxation, Equilibrium 137&138 (1991) 175
Amorphous Solids, Electronic Structure, Molecular Dynamics 137&138 (1991) 149
Amorphous Solids, Photoresponse, Silicon Alloys 137&138 (1991) 847
Amorphous Solids, Silicon, Field Effect, Microwave 137&138 (1991) 1241
Amorphous Solids, Silicon, Interfaces 137&138 (1991) 447
Amorphous Solids, Surface Properties, Stäbler–Wronski Effect, Silicon 137&138 (1991) 339
Auger Electron Spectroscopy, Alloys, Electronic Structure, Photoemission 137&138 (1991) 851
Boron, Optical Properties 137&138 (1991) 923
Chalcogenides, Internal Friction 137&138 (1991) 989
Chalcogenides, Photoconductivity, Recombination, Transient Effects 137&138 (1991) 951
Chalcohalides, Defects 137&138 (1991) 955
Computer Simulation, Photoconductivity, Time-of-Flight 137&138 (1991) 359
Computer Simulation, Silica, Thin Films, X-ray Emission 137&138 (1991) 903
Dangling Bonds, Gap States 137&138 (1991) 363
Defects, Dangling Bonds 137&138 (1991) 335
Defects, Dangling Bonds 137&138 (1991) 347
Defects, Equilibrium, Metastability, Silicon 137&138 (1991) 259
Defects, Modelling 139 (1992) 179
Equilibrium, Gap States, Dangling Bonds, Metastability 137&138 (1991) 315
Equilibrium, Stability, Trapping, Thin Film Transistors 137&138 (1991) 1215
Experimental Techniques, Electronic Conductivity, Mobility, Deposition Techniques 137&138 (1991) 355
Germanium, Silicon Alloys, Capacitance Methods, Electrical Properties and Relaxation 137&138 (1991) 809
Hopping, Monte Carlo simulations, Recombination, Tunneling 137&138 (1991) 579

Density of States *(continued)*
Hopping, Porosity, Silicon Nitride 137&138 (1991) 515
Microstructure, Electric Properties, Optical Properties 137&138 (1991) 371
Mobility, Silicon, Time-of-Flight 137&138 (1991) 411
Optical Properties, Ellipsometry, Hydrogen Effects, Amorphous Solids 137&138 (1991) 331
Optical Properties, Thin Films, Sputtering 139 (1992) 60
Stäbler–Wronski Effect, Kinetics, Equilibrium 137&138 (1991) 227
Thin Film Transistors, Modelling 137&138 (1991) 1229

Deposition Techniques
Alloys, Hydrogen Effects 137&138 (1991) 653
Amorphous Solids, Alloys, Thin Films 137&138 (1991) 689
Amorphous Solids, Crystallization, Oxides, Plasma Deposition, Silicon, Thin Films, X-ray Diffraction 137&138 (1991) 733
Amorphous Solids, Electrical Properties, Hydrogen Effects 137&138 (1991) 721
Amorphous Solids, Fermi Level 137&138 (1991) 761
Amorphous Solids, Germania, Kinetics, Plasma Deposition, Thin Films 137&138 (1991) 779
Amorphous Solids, Hydrogenation, Photoinduced Effects, Thin Films 137&138 (1991) 685
Amorphous Solids, Photodeposition, Silicon 137&138 (1991) 665
Amorphous Solids, Silicon 137&138 (1991) 661
Amorphous Solids, Structure, Radiation Effects, Semiconductors 137&138 (1991) 657
Amorphous Solids, Structure, Small Angle Electron Scattering 137&138 (1991) 65
Density of States, Experimental Techniques, Electronic Conductivity, Mobility 137&138 (1991) 355
Diffusion, Germanium, Growth Kinetics, Plasma Deposition 137&138 (1991) 745
Doping, Fluorides, Silicon, Thin Films 137&138 (1991) 697
Growth Kinetics, Hydrogen Effects 137&138 (1991) 693
Hydrogen Effects, Silicon, Stability, Stäbler–Wronski Effect 137&138 (1991) 235
Modelling, Silicon Alloys, Thermodynamics, Theory 137&138 (1991) 871
Semiconductors, Surface Analysis, XPS, Luminescence 135 (1991) 243

Detectors
Applications, Diodes 137&138 (1991) 1291
Chalcogenides, Electrophotography, Multilayers, Silicon 137&138 (1991) 1151
High Field Effects, Heterojunctions, Photoreceptor, Tunneling 137&138 (1991) 1283
Image Sensors, X-ray Sensor 137&138 (1991) 1321

Devices
Amorphous Solids, Computer Simulation, Density of States, Transient Effects 137&138 (1991) 1233
Annealing Effects, Silicon Nitride, Stability 137&138 (1991) 1287
Capacitance Methods, Doping, Plasma Deposition, Silicon 137&138 (1991) 1059
Chalcogenides, Mobility, Photoconductivity, Thermal Properties 137&138 (1991) 947
Diodes, Photoresponse 137&138 (1991) 1305
Thin Film Transistors, Amorphous Solids 137&138 (1991) 1249
Thin Film Transistors, Transport Properties – Solids 137&138 (1991) 1225

Dielectric Properties
Chalcogenides, Internal Friction 131–133 (1991) 1072
Colloids 131–133 (1991) 238
Dielectric Properties 131–133 (1991) 1046
Dielectric Properties 131–133 (1991) 1182
Dielectric Properties 131–133 (1991) 1186
Diffusion, Viscosity, Polymers 131–133 (1991) 930
Electrical Properties and Relaxation 131–133 (1991) 1080
Electrical Properties and Relaxation 131–133 (1991) 1125
Electrical Properties and Relaxation 131–133 (1991) 1194
Electrical Properties and Relaxation, Silicates 131–133 (1991) 969
Emulsions 131–133 (1991) 229
Fluorides 131–133 (1991) 71
Glass Formation, Polymers, Mechanical Properties 131–133 (1991) 1
Glass Transition 131–133 (1991) 1161
Light Scattering, Density, Polymers 131–133 (1991) 144
Light Scattering, Mechanical Properties, Polymers 131–133 (1991) 579
Liquids 131–133 (1991) 1169
Liquids, Modelling, Glass Transition 131–133 (1991) 348
Modelling 131–133 (1991) 1096
Nuclear Magnetic Resonance 131–133 (1991) 1063
Nuclear Magnetic Resonance, Relaxation 131–133 (1991) 961
Oxides, Infra-red Absorption 131–133 (1991) 994
Oxides, Sol–Gel Processes, Ionic Conductivity 131–133 (1991) 1227
Polymers 131–133 (1991) 457
Polymers 131–133 (1991) 723
Polymers 131–133 (1991) 852
Polymers 131–133 (1991) 1131
Polymers 131–133 (1991) 1158
Polymers 131–133 (1991) 1164
Polymers, Electrical Properties and Relaxation 131–133 (1991) 1154
Polymers, Glass Transition, Crystallization 131–133 (1991) 1149
Polymers, Modelling 131–133 (1991) 728
Polymers, Thermal Properties 131–133 (1991) 48

Dielectric Properties *(continued)*
Pressure Effects 131–133 (1991) 1145
Relaxation 131–133 (1991) 217
Relaxation 131–133 (1991) 335
Relaxation 131–133 (1991) 990
Relaxation 131–133 (1991) 1036
Relaxation 131–133 (1991) 1136
Relaxation 131–133 (1991) 1202
Relaxation, Elastic Properties 131–133 (1991) 877
Relaxation, Electrical Properties and Relaxation 131–133 (1991) 187
Sol–Gel Processes 131–133 (1991) 913
Structure 131–133 (1991) 1084
Ultrasonic Relaxation, Relaxation, Polymers 131–133 (1991) 58

Differential Thermal Analysis
Chalcogenides, Crystallization, Semiconductors 139 (1992) 129
Chemical Durability, Infra-red Absorption 140 (1992) 225
Glass Formation, Phase Transition, X-ray Diffraction 140 (1992) 69
Glass Transition, Modelling, Polymers 139 (1992) 78
Glass Transition, Thermalization 131–133 (1991) 483
Heat Capacity, Modelling, Silicates 139 (1992) 239
Nuclear Magnetic Resonance, X-ray Diffraction, Polymers 131–133 (1991) 113
Phase Separation, X-ray Diffraction 140 (1992) 73
Photoinduced Effects 131–133 (1991) 520
Relaxation, Chalcogenides 131–133 (1991) 479
Structure, Halide Glasses, Electron Spin Resonance 136 (1991) 14
Thermal Properties, Specific Heat 131–133 (1991) 451

Diffusion
Amorphous Solids, Applications, Chalcogenides 137&138 (1991) 1341
Amorphous Solids, Chalcogenides, Ionic Conductivity, Photoinduced Effects 137&138 (1991) 1021
Amorphous Solids, Chalcogenides, Nuclear Magnetic Resonance 137&138 (1991) 1047
Amorphous Solids, Defects, Doping, Structure 137&138 (1991) 107
Amorphous Solids, Doping, Silicon Alloys 137&138 (1991) 111
Amorphous Solids, Effusion, Hydrogen Effects, Hydrogen in Glass 137&138 (1991) 53
Amorphous Solids, Hydrogen Effects, Germanium, Silicon Alloys 137&138 (1991) 37
Amorphous Solids, Silicon, Structure 137&138 (1991) 29
Auger Electron Spectroscopy, Hydrogen Effects, Surface Reactions 137&138 (1991) 1087
Chalcogenides, Photoinduced Effects 137&138 (1991) 1027
Chemical Durability 140 (1992) 107
Computer Simulation, Time-of-Flight 137&138 (1991) 439
Deposition Techniques, Germanium, Growth Kinetics, Plasma Deposition 137&138 (1991) 745
Dielectric Properties, Viscosity, Polymers 131–133 (1991) 930
Diffusion 131–133 (1991) 369
Diffusion 134 (1991) 169
Fractals, Relaxation 131–133 (1991) 233
Germanium, Hydrogenation, Annealing Effects 137&138 (1991) 41
Grating, Photoconductivity, Recombination, Stäbler–Wronski Effect 137&138 (1991) 475
Hydrogen in Glass, Defects, Metastability, Dangling Bonds 137&138 (1991) 33
Hydrogenation, Amorphous Solids, Dangling Bonds 137&138 (1991) 21
Light Scattering, Polymers 131–133 (1991) 624
Light Scattering, Polymers 131–133 (1991) 630
Mechanical Properties, Viscosity, Polymers 131–133 (1991) 505
Modelling, Polymers 131–133 (1991) 593
Modelling, Polymers 131–133 (1991) 654
Modelling, Transport Properties – Solids, Thermal Properties 131–133 (1991) 667
Monte Carlo simulations, Modelling 131–133 (1991) 635
Monte Carlo simulations, Polymers 131–133 (1991) 650
Neutron Diffraction, Polymers 131–133 (1991) 620
Neutron Diffraction, Polymers 131–133 (1991) 709
Nuclear Magnetic Resonance, Neutron Diffraction, Viscosity 131–133 (1991) 551
Nuclear Magnetic Resonance, Polymers 131–133 (1991) 735
Optical Properties 131–133 (1991) 42
Polymers 131–133 (1991) 827
Polymers, Phase Separation 131–133 (1991) 598
Silica, Hydrogen Effects, Reactions 139 (1992) 35
Sol–Gel Processes, Light Scattering 131–133 (1991) 671
Structure, Relaxation, Boron, Hydrogen Effects 137&138 (1991) 179
Transport Properties – Solids, Modelling, Theory 131–133 (1991) 1022

Diodes
Amorphous Solids, Electroluminescence, Injection of Carriers, Silicon 137&138 (1991) 595
Applications, Detectors 137&138 (1991) 1291
Devices, Photoresponse 137&138 (1991) 1305
Doping, Electrical Properties, Electroluminescence, Gallium Phosphide 137&138 (1991) 935
Electroluminescence, Injection of Carriers, Photoresponse, Transport Properties – Devices 137&138 (1991) 1267

Diodes *(continued)*
Electroluminescence, Injection of Carriers, Plasma Deposition, Silicon Alloys 137&138 (1991) 1271
Electroluminescence, Recombination, Injection of Carriers 137&138 (1991) 599
Germanium, Silicon, Solar Cells, Solar Cells – Tandem 137&138 (1991) 813
Image Sensors, Photoresponse, Transient Effects, Trapping 137&138 (1991) 1309
Injection of Carriers, Light Modulators, Transient Effects, Transport Properties – Devices 137&138 (1991) 1301
Semiconductors, Liquid Crystal Displays, Light Modulators, Structure, Amorphous Solids 137&138 (1991) 1325
Solar Cells, Junctions, Photo Voltage, Computer Simulation, Amorphous Solids 137&138 (1991) 1205

Doping
Amorphous Solids, Capacitance Methods, Density of States 137&138 (1991) 311
Amorphous Solids, Carbon, Density of States, Hopping 137&138 (1991) 831
Amorphous Solids, Density of States, Electrical Properties and Relaxation, Equilibrium 137&138 (1991) 175
Amorphous Solids, Diffusion, Defects, Structure 137&138 (1991) 107
Amorphous Solids, Diffusion, Silicon Alloys 137&138 (1991) 111
Amorphous Solids, Electrical Properties, Photoinduced Effects 137&138 (1991) 279
Annealing Effects, Dangling Bonds, Equilibrium, Thin Film Transistors 137&138 (1991) 163
Bonding, Hydrogen Effects, Plasma Deposition, Silicon Alloys 137&138 (1991) 119
Capacitance Methods, Devices, Plasma Deposition, Silicon 137&138 (1991) 1059
Chalcogenides, Electron Spin Resonance, Electrical Properties 137&138 (1991) 1043
Deposition Techniques, Fluorides, Silicon, Thin Films 137&138 (1991) 697
Diodes, Electrical Properties, Electroluminescence, Gallium Phosphide 137&138 (1991) 935
Electron Microscopy, Electric Properties, Raman Spectra, Silicon Alloys, Plasma Deposition 137&138 (1991) 741
Electron Spin Resonance, Gap States, Photomodulation, Transport Properties – Solids 137&138 (1991) 379
Electronic Conductivity, Electrical Properties, Thermoelectric Power, Transport Properties – Solids 137&138 (1991) 471
Electronic Conductivity, Nitrogen, Sputtering, Tetrahedral Materials 137&138 (1991) 821
Glow Discharge, Hydrogenation, Plasma Deposition, Silicon Alloys 137&138 (1991) 701
Metastability, Hydrogen Effects, Electrical Properties and Relaxation 137&138 (1991) 167
Photoconductivity, Secondary Ion Mass Spectroscopy, Silicon, Stäbler–Wronski Effect 137&138 (1991) 737
Photoconductivity, Transport Properties – Solids, Surface Tension 137&138 (1991) 491
Transport Properties – Solids, Time-of-Flight, Electronic Conductivity, Drying 137&138 (1991) 395

Drying
Transport Properties – Solids, Time-of-Flight, Doping, Electronic Conductivity 137&138 (1991) 395

Dynamic Fatigue
Chalcogenides, Defects, Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 1017
Defects, Optical Properties, Photoconductivity, Polymers 137&138 (1991) 915
Polymers, Small Angle X-ray Scattering 131–133 (1991) 492

Effusion
Amorphous Solids, Annealing Effects, Hydrogen in Glass, Interfaces 137&138 (1991) 1139
Amorphous Solids, Diffusion, Hydrogen Effects, Hydrogen in Glass 137&138 (1991) 53

Elastic Properties
Crystallization, Thermodynamics, Thin Films 137&138 (1991) 725
Dielectric Properties, Relaxation 131–133 (1991) 877
Polymers, Viscosity, Modelling 131–133 (1991) 831
Viscosity, Polymers 131–133 (1991) 773

Electric Properties
Amorphization, Computer Simulation, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 135
Doping, Electron Microscopy, Raman Spectra, Silicon Alloys, Plasma Deposition 137&138 (1991) 741
Liquids, Electrochemical Properties 140 (1992) 215
Microstructure, Density of States, Optical Properties 137&138 (1991) 371
Neutron Diffraction 131–133 (1991) 973
Transport Properties – Solids, Chalcogenides, Halide Glasses 136 (1991) 81

Electrical Properties
Amorphous Solids, Alloys, Infra-red Absorption 137&138 (1991) 911
Amorphous Solids, Deposition Techniques, Hydrogen Effects 137&138 (1991) 721
Amorphous Solids, Doping, Photoinduced Effects 137&138 (1991) 279
Chalcogenides, Doping, Electron Spin Resonance 137&138 (1991) 1043
Chalcogenides, Electronic Conductivity, Thermoelectric Power, Photoinduced Effects 137&138 (1991) 1039
Conductivity, Percolation, Theory 135 (1991) 219
Diodes, Doping, Electroluminescence, Gallium Phosphide 137&138 (1991) 935
Doping, Electronic Conductivity, Thermoelectric Power, Transport Properties – Solids 137&138 (1991) 471
Grating, Photoconductivity, Optical Properties 137&138 (1991) 483
Localization, Thin Films, Metal–Insulator Transition 137&138 (1991) 519
Optical Properties, Silicon Nitride, Ellipsometry 137&138 (1991) 895
Polymers 131–133 (1991) 587
Silicon Alloys, Tunneling 137&138 (1991) 523
Silicon Nitride, Microstructure, Electronic Structure, Optical Properties 137&138 (1991) 883

Electrical Properties and Relaxation
Absorption, Electronic Conductivity, Metastability, Defects 137&138 (1991) 511
Amorphous Solids, Density of States, Doping, Equilibrium 137&138 (1991) 175
Amorphous Solids, Experimental Techniques, Growth Kinetics, Kinetics 137&138 (1991) 487
Amorphous Solids, Gap States, Silicon, Transient Effects 137&138 (1991) 319
Amorphous Solids, Hydrogen Effects, Silicon Alloys, Electron Diffraction 137&138 (1991) 907
Amorphous Solids, Optical Properties, Pressure Effects, Semiconductors, Silicon Alloys 137&138 (1991) 931
Bonding, Dangling Bonds, Electron–Lattice Interactions, Metastability 137&138 (1991) 219
Colloids, Polymers 131–133 (1991) 341
Dangling Bonds, Electron Spin Resonance, Equilibrium, Silicon Alloys 137&138 (1991) 199
Dielectric Properties 131–133 (1991) 1080
Dielectric Properties 131–133 (1991) 1125
Dielectric Properties 131–133 (1991) 1194
Dielectric Properties, Polymers 131–133 (1991) 1154
Dielectric Properties, Relaxation 131–133 (1991) 187
Dielectric Properties, Silicates 131–133 (1991) 969
Fluorescence Spectra, Transport Properties – Gel 131–133 (1991) 685
Fluorides, Ionic Conductivity 140 (1992) 238
Germanium, Silicon Alloys, Density of States, Capacitance Methods 137&138 (1991) 809
Halide Glasses, Ionic Conductivity 131–133 (1991) 1028
Hopping, Electronic Conductivity 131–133 (1991) 1099
Ionic Conductivity 140 (1992) 103
Metastability, Hydrogen Effects, Doping 137&138 (1991) 167
Nuclear Magnetic Resonance, Alumina 131–133 (1991) 1011
Raman Spectra 131–133 (1991) 981
Relaxation 131–133 (1991) 1250
Silicon, Optical Properties 135 (1991) 204
Structure 134 (1991) 249
Tunneling, Modelling 131–133 (1991) 92
Viscosity, Density, Fluorides 140 (1992) 285

Electroabsorption
Electronic Structure, Optical Properties 137&138 (1991) 627
Interfaces, Multilayers, Absorption 137&138 (1991) 1131

Electrochemical Properties
Liquids, Electric Properties 140 (1992) 215
Thin Film Transistors, Membranes, Silicon Nitride 137&138 (1991) 1253

Electroluminescence
Amorphous Solids, Diodes, Injection of Carriers, Silicon 137&138 (1991) 595
Carbon, Multilayers 137&138 (1991) 1275
Diodes, Doping, Electrical Properties, Gallium Phosphide 137&138 (1991) 935
Diodes, Injection of Carriers, Photoresponse, Transport Properties – Devices 137&138 (1991) 1267
Diodes, Injection of Carriers, Plasma Deposition, Silicon Alloys 137&138 (1991) 1271
Diodes, Recombination, Injection of Carriers 137&138 (1991) 599
Silicon Alloys, Thin Films 137&138 (1991) 1263

Electron Diffraction
Amorphous Solids, Hydrogen Effects, Silicon Alloys, Electrical Properties and Relaxation 137&138 (1991) 907
Contacts, Silicon, Surface Reactions, Amorphous Solids 137&138 (1991) 1063
Fibers, Optical Properties, Mechanical Properties 140 (1992) 199
Glasses Containing Transition Metal Ions 140 (1992) 297
Infra-red Absorption, Photoinduced Effects, Plasma Deposition, Raman Spectra 137&138 (1991) 1001

Electron Microscopy
Doping, Electric Properties, Raman Spectra, Silicon Alloys, Plasma Deposition 137&138 (1991) 741
Nucleation, Theory, Small Angle X-ray Scattering 136 (1991) 181
Quantum Wells, Chalcogenides, Silica, Microstructure 134 (1991) 233
Thin Films, Surface Properties, Chalcogenides 139 (1992) 222

Electron Spin Resonance
Amorphous Solids, Dangling Bonds, Photoinduced Effects, Silicon 137&138 (1991) 1
Amorphous Solids, Gap States, Metastability, Silicon 137&138 (1991) 183
Chalcogenides, Doping, Electrical Properties 137&138 (1991) 1043
Chalcogenides, Glasses Containing Transition Metal Ions 136 (1991) 76
Chalcogenides, Optical Properties, Photoinduced Effects, XPS 137&138 (1991) 985
Dangling Bonds, Electrical Properties and Relaxation, Equilibrium, Silicon Alloys 137&138 (1991) 199
Dangling Bonds, Gap States, Metastability, Silicon Nitride 137&138 (1991) 291
Dangling Bonds, Impurities, Silicon, Stäbler–Wronski Effect 137&138 (1991) 391
Dangling Bonds, Pressure Effects, Metastability 137&138 (1991) 275
Defects, Dangling Bonds, Tetrahedral Materials 137&138 (1991) 323
Defects, Silica, Raman Spectra 136 (1991) 151
Defects, Silicon Nitride 137&138 (1991) 887
Doping, Gap States, Photomodulation, Transport Properties – Solids 137&138 (1991) 379
Fluorides, Ion Implantation 137&138 (1991) 383
Glasses Containing Transition Metal Ions, Magnetic Properties 140 (1992) 314
Glasses Containing Transition Metal Ions, Magnetic Properties 140 (1992) 319
Nuclear Magnetic Resonance, Relaxation 131–133 (1991) 125
Nuclear Magnetic Resonance, Stäbler–Wronski Effect, Hydrogen Effects, Recombination 137&138 (1991) 247
Oxides, Chemical Modification, Defects 135 (1991) 122
Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 211
Radiation Effects 140 (1992) 194
Recombination, Amorphous Solids, Silicon, Luminescence 137&138 (1991) 551
Silica, Defects, Lasers 131–133 (1991) 1240
Structure, Halide Glasses, Differential Thermal Analysis 136 (1991) 14

Electron–Lattice Interactions
Amorphous Solids, Luminescence, Multilayers, Silicon 137&138 (1991) 1123
Bonding, Dangling Bonds, Electrical Properties and Relaxation, Metastability 137&138 (1991) 219
Liquid Metals, Theory 136 (1991) 173
Optical Properties 140 (1992) 25
Optical Properties 140 (1992) 35
Time-Resolved Spectroscopy, Optical Properties, Non-linear Optics 137&138 (1991) 531

Electronic Conductivity
Absorption, Metastability, Defects, Electrical Properties and Relaxation 137&138 (1991) 511
Amorphous Solids, Photoresponse, Thin Films, Transient Effects 137&138 (1991) 463
Chalcogenides, Thermoelectric Power, Electrical Properties, Photoinduced Effects 137&138 (1991) 1039
Composites, Sol–Gel Precursors 136 (1991) 97
Density of States, Experimental Techniques, Mobility, Deposition Techniques 137&138 (1991) 355
Doping, Electrical Properties, Thermoelectric Power, Transport Properties – Solids 137&138 (1991) 471
Doping, Nitrogen, Sputtering, Tetrahedral Materials 137&138 (1991) 821
Electrical Properties and Relaxation, Hopping 131–133 (1991) 1099
Injection of Carriers, Interfaces, Photoconductivity, Silicon Alloys 137&138 (1991) 1279
Luminescence, Multilayers, Optical Properties, Superlattices 137&138 (1991) 1119
Metastability, Defects, Stäbler–Wronski Effect 137&138 (1991) 263
Percolation, Theory 134 (1991) 287
Stability, Structure, Amorphous Solids, Annealing Effects 137&138 (1991) 239
Theory, Percolation 131–133 (1991) 1245
Theory, Transport Properties – Solids, Amorphous Solids, Semiconductors 137&138 (1991) 423
Transport Properties – Solids, Microstructure, Theory 137&138 (1991) 507
Transport Properties – Solids, Time-of-Flight, Doping, Drying 137&138 (1991) 395

Electronic Structure
Alloys, Carbon, Density of States, Gap States 137&138 (1991) 867
Amorphous Solids, Conduction Band, Defects, Density of States, Gap States 137&138 (1991) 387

Electronic Structure *(continued)*
Amorphous Solids, Density of States, Molecular Dynamics 137&138 (1991) 149
Amorphous Solids, Plasma Deposition, Photo-emission 137&138 (1991) 875
Amorphous Solids, Silicon Alloys 137&138 (1991) 299
Auger Electron Spectroscopy, Alloys, Density of States, Photo-emission 137&138 (1991) 851
Borates, Optical Properties, Oxidation Reduction 134 (1991) 147
Electroabsorption, Optical Properties 137&138 (1991) 627
Gap States, Hydrogen Effects, Hydrogenation, Photo-emission 137&138 (1991) 327
Germanium, Amorphous Solids, Photoresponse, Optical Properties 137&138 (1991) 803
Phonons, Silicon Alloys, Silicon Nitride, Theory 137&138 (1991) 891
Silicon 139 (1992) 74
Silicon Nitride, Microstructure, Optical Properties, Electrical Properties 137&138 (1991) 883
Thin Films, Carbon, Composites, Optical Properties 136 (1991) 53

Electrophotography
Chalcogenides, Detectors, Multilayers, Silicon 137&138 (1991) 1151
Photoreceptor, Modelling 137&138 (1991) 1329

Ellipsometry
Amorphous Solids, Growth Kinetics, Nucleation, Silicon 137&138 (1991) 787
Carbon, Catalysis, Composites, XPS 137&138 (1991) 863
Density of States, Optical Properties, Hydrogen Effects, Amorphous Solids 137&138 (1991) 331
Glow Discharge, Growth Kinetics, Infra-red Absorption, Silicon 137&138 (1991) 771
Glow Discharge, Growth Kinetics, Infra-red Absorption, Silicon 137&138 (1991) 775
Growth Kinetics, Hydrogen Effects, Thin Films, Silicon 137&138 (1991) 791
Interfaces, Kinetics, Surface Reactions, Rutherford Backscattering 137&138 (1991) 1055
Optical Properties, Silicon Nitride, Electrical Properties 137&138 (1991) 895

Emulsions
Dielectric Properties 131–133 (1991) 229

Equilibrium
Amorphous Solids, Dangling Bonds, Kinetics 137&138 (1991) 207
Amorphous Solids, Density of States, Doping, Electrical Properties and Relaxation 137&138 (1991) 175
Amorphous Solids, Interfaces, Metastability, Thin Film Transistors 137&138 (1991) 1221
Annealing Effects, Dangling Bonds, Doping, Thin Film Transistors 137&138 (1991) 163
Dangling Bonds, Electrical Properties and Relaxation, Electron Spin Resonance, Silicon Alloys 137&138 (1991) 199
Dangling Bonds, Tails, Stability 137&138 (1991) 191
Defects, Density of States, Metastability, Silicon 137&138 (1991) 259
Defects, Hydrogen Effects, Photoinduced Effects, Thermodynamics 137&138 (1991) 157
Density of States, Stability, Trapping, Thin Film Transistors 137&138 (1991) 1215
Gap States, Dangling Bonds, Density of States, Metastability 137&138 (1991) 315
Germanium, Metastability, Quenching, Relaxation 137&138 (1991) 187
Germanium, Plasma Deposition, Raman Spectra, Silicon 137&138 (1991) 195
Stäbler–Wronski Effect, Density of States, Kinetics 137&138 (1991) 227

Etching
Amorphous Solids, Chalcogenides, Photoinduced Effects, Surface Reactions 137&138 (1991) 1035

EXAFS
Amorphous Solids, Chalcogenides, Medium-Range Order, Modelling 137&138 (1991) 127
Amorphous Solids, III–V semiconductors, Dangling Bonds, X-ray Diffraction 137&138 (1991) 131
Bonding, Silicon Alloys, Structure, Optical Properties 137&138 (1991) 899
Chalcogenides, Glass Formation, Structure, X-ray Diffraction 137&138 (1991) 123
Chalcogenides, Structure, Germanates 139 (1992) 137
Phosphates, Glasses Containing Transition Metal Ions, Structure 136 (1991) 198
Photo-emission, Silicates 136 (1991) 260
Semiconductors, Silicon Alloys, X-ray Diffraction 137&138 (1991) 75
Sol–Gel Processes, Infra-red Absorption 136 (1991) 103

Excitons
Optical Properties, Phase Separation, Oxides, Sol–Gel Processes 134 (1991) 71

Expansion
Glass Ceramics 131–133 (1991) 488

Experimental Techniques
Amorphous Solids, Electrical Properties and Relaxation, Growth Kinetics, Kinetics 137&138 (1991) 487
Amorphous Solids, Photoresponse, Silicon, Transient Effects 137&138 (1991) 479
Defects, Hydrogen Effects, Photo Voltage, Silicon 137&138 (1991) 79
Density of States, Electronic Conductivity, Mobility, Deposition Techniques 137&138 (1991) 355
Scanning Electron Microscopy, Secondary Electron Emission, Thin Film Transistors, Amorphous Solids 137&138 (1991) 1237

Fabrication
Plasma Deposition, Solar Cells 137&138 (1991) 757

Fermi Level
Amorphous Solids, Deposition Techniques 137&138 (1991) 761

Fibers
Chalcogenides, Infra-red Absorption, Hydrogen Effects 140 (1992) 324
Chalcohalides, Fluorides, Glass Transition 140 (1992) 47
Crystallization, Optical Properties 140 (1992) 301
Electron Diffraction, Optical Properties, Mechanical Properties 140 (1992) 199
Fibers 140 (1992) 172
Lasers 140 (1992) 10
Lasers 140 (1992) 19
Lasers 140 (1992) 179
Optical Properties 140 (1992) 146
Optical Properties 140 (1992) 153
Optical Properties 140 (1992) 259
Optical Properties, Infra-red Absorption, Silicates 136 (1991) 137
Preforms 140 (1992) 265
Preforms 140 (1992) 281
Sol–Gel Precursors, Noise 134 (1991) 199
Thermal Properties, Optical Properties, Time-Resolved Spectroscopy 140 (1992) 31

Field Effect
Amorphous Solids, Hydrogenation, Silicon, Thin Films 137&138 (1991) 1209
Amorphous Solids, Liquid Crystal Displays, Interfaces, Thin Film Transistors 137&138 (1991) 1245
Amorphous Solids, Silicon, Density of States, Microwave 137&138 (1991) 1241

Floating Bonds
Theory, Dangling Bonds 137&138 (1991) 303

Fluorescence Spectra
Amorphous Solids, Chalcogenides, Defects, Photoinduced Effects 137&138 (1991) 997
Electrical Properties and Relaxation, Transport Properties – Gel 131–133 (1991) 685
Fluorides, Rare-earth Ions 139 (1992) 271
Lasers, Oxides 139 (1992) 151
Optical Properties, Alloys, Optical Fibers 140 (1992) 233
Polymers, Nuclear Magnetic Resonance, Thermal Properties 131–133 (1991) 755
Sol–Gel Processes, Silica, Structure 135 (1991) 8

Fluorides
Chalcohalides, Fibers, Glass Transition 140 (1992) 47
Deposition Techniques, Doping, Silicon, Thin Films 137&138 (1991) 697
Dielectric Properties 131–133 (1991) 71
Electrical Properties and Relaxation, Ionic Conductivity 140 (1992) 238
Electron Spin Resonance, Ion Implantation 137&138 (1991) 383
Fluorescence Spectra, Rare-earth Ions 139 (1992) 271
Forming 140 (1992) 335
Growth Kinetics, Theory, Nucleation 134 (1991) 157
Optical Properties, Fracture 140 (1992) 340
Optical Properties, Hydrogenation, Hydrogen in Glass 135 (1991) 189
Optical Properties, Structure 131–133 (1991) 1230
Phosphates, Noise 135 (1991) 79
Relaxation, Chalcogenides, Glass Transition 131–133 (1991) 182
Viscosity, Electrical Properties and Relaxation, Density 140 (1992) 285

Forming
Amorphous Solids, Memory Behaviour, Switching, Silicon 137&138 (1991) 499
Amorphous Solids, Memory Behaviour, Switching, Silicon 137&138 (1991) 1257
Fluorides 140 (1992) 335

Fractals
Amorphous Solids, Light Scattering, Raman Spectra, Silicon 137&138 (1991) 103
Diffusion, Relaxation 131–133 (1991) 233
Sol–Gel Processes 136 (1991) 119
Stress Relaxation, Sol–Gel Precursors 139 (1992) 172

Fracture
Coatings, Strength, Sol–Gel Processes 139 (1992) 185
Molecular Dynamics, Oxyhalides 134 (1991) 179
Optical Properties, Fluorides 140 (1992) 340

Fracture *(continued)*
Polymers 131–133 (1991) 395

Gallium Phosphide
Diodes, Doping, Electrical Properties, Electroluminescence 137&138 (1991) 935

Gap States
Absorption, Contacts, Light Scattering, Photoconductivity 137&138 (1991) 615
Alloys, Carbon, Density of States, Electronic Structure 137&138 (1991) 867
Amorphous Solids, Capacitance Methods, Interfaces, Silicon Nitride 137&138 (1991) 1051
Amorphous Solids, Conduction Band, Defects, Density of States, Electronic Structure 137&138 (1991) 387
Amorphous Solids, Electrical Properties and Relaxation, Silicon, Transient Effects 137&138 (1991) 319
Amorphous Solids, Electron Spin Resonance, Metastability, Silicon 137&138 (1991) 183
Amorphous Solids, Metastability, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 835
Amorphous Solids, Optical Properties, Hydrogen Effects, Interfaces 137&138 (1991) 1071
Amorphous Solids, Photoconductivity, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 1169
Amorphous Solids, Photomodulation, Semiconductors 137&138 (1991) 251
Amorphous Solids, Photomodulation, Silicon Alloys 137&138 (1991) 855
Annealing Effects, Dangling Bonds, Photoinduced Effects, Time-Resolved Spectroscopy 137&138 (1991) 535
Computer Simulation, Defects, Photoconductivity, Recombination 137&138 (1991) 351
Dangling Bonds, Density of States 137&138 (1991) 363
Dangling Bonds, Electron Spin Resonance, Metastability, Silicon Nitride 137&138 (1991) 291
Doping, Electron Spin Resonance, Photomodulation, Transport Properties – Solids 137&138 (1991) 379
Electronic Structure, Hydrogen Effects, Hydrogenation, Photoemission 137&138 (1991) 327
Equilibrium, Dangling Bonds, Density of States, Metastability 137&138 (1991) 315
Gap States 137&138 (1991) 367
Hopping, Photoconductivity, Time-of-Flight, Time-Resolved Spectroscopy 137&138 (1991) 443
Photoconductivity, Recombination, Semiconductors 137&138 (1991) 607

Germanates
Chalcogenides, EXAFS, Structure 139 (1992) 137
Infra-red Absorption, Structure 134 (1991) 259
Refractive Index, Infra-red Absorption, Oxides, Silicates 135 (1991) 114
Theory 137&138 (1991) 25

Germania
Amorphous Solids, Deposition Techniques, Kinetics, Plasma Deposition, Thin Films 137&138 (1991) 779

Germanium
Amorphous Solids, Diffusion, Hydrogen Effects, Silicon Alloys 137&138 (1991) 37
Amorphous Solids, Hydrogen Effects, Microwave, Plasma Deposition 137&138 (1991) 749
Diffusion, Deposition Techniques, Growth Kinetics, Plasma Deposition 137&138 (1991) 745
Diodes, Silicon, Solar Cells, Solar Cells – Tandem 137&138 (1991) 813
Electronic Structure, Amorphous Solids, Photoresponse, Optical Properties 137&138 (1991) 803
Equilibrium, Metastability, Quenching, Relaxation 137&138 (1991) 187
Equilibrium, Plasma Deposition, Raman Spectra, Silicon 137&138 (1991) 195
Growth Kinetics, Plasma Deposition, Silicon, Solar Cells – Tandem 137&138 (1991) 799
Hopping, Computer Simulation, Photoconductivity, Semiconductors 137&138 (1991) 843
Hydrogenation, Diffusion, Annealing Effects 137&138 (1991) 41
Mechanical Properties, Stress Relaxation, Structure 137&138 (1991) 83
Semiconductors, Silicon, Stäbler–Wronski Effect, Nuclear Magnetic Resonance 137&138 (1991) 71
Silicon Alloys, Density of States, Capacitance Methods, Electrical Properties and Relaxation 137&138 (1991) 809

Glass Ceramics
Amorphous Solids, Interfaces, Multilayers, Optical Properties 137&138 (1991) 1103
Expansion 131–133 (1991) 488
Porosity, Phosphates, Chemical Modification 139 (1992) 86
Porosity, Phosphates, Chemical Modification 139 (1992) 90

Glass Ceramics *(continued)*
Superconductors 134 (1991) 270

Glass Fibers
Sol–Gel Processes, Viscosity, Oxides 134 (1991) 191

Glass Formation
Alumina 134 (1991) 176
Chalcogenides, EXAFS, Structure, X-ray Diffraction 137&138 (1991) 123
Chalcogenides, Pressure Effects, Phase Separation 135 (1991) 255
Chalcohalides, Infra-red Absorption, Raman Spectra 136 (1991) 205
Chemical Durability, Mechanical Properties 140 (1992) 87
Chemical Durability, X-ray Diffraction 140 (1992) 62
Impurities, Crystallization 140 (1992) 229
Mixed-alkali Effect 140 (1992) 345
Modelling 140 (1992) 184
Optical Fibers, Impurities, Crystallization 140 (1992) 293
Oxides, Density, Refractive Index 135 (1991) 105
Phase Transition, X-ray Diffraction, Differential Thermal Analysis 140 (1992) 69
Polymers, Dielectric Properties, Mechanical Properties 131–133 (1991) 1
Polymers, Relaxation 131–133 (1991) 362

Glass Transition
Chalcogenides, Coatings, Crystallization 139 (1992) 177
Chalcogenides, Crystallization, Growth Kinetics 136 (1991) 67
Chalcogenides, Halide Glasses, Optical Properties 135 (1991) 49
Chalcogenides, Nuclear Magnetic Resonance, Structure 135 (1991) 171
Chalcohalides, Fibers, Fluorides 140 (1992) 47
Colloids, Liquids 131–133 (1991) 289
Dielectric Properties 131–133 (1991) 1161
Dielectric Properties, Polymers, Crystallization 131–133 (1991) 1149
Glass Transition 131–133 (1991) 242
Glass Transition 131–133 (1991) 252
Glass Transition 134 (1991) 277
Halide Glasses, Crystallization, Thermal Properties 140 (1992) 1
Hardness, Polymers 131–133 (1991) 584
Hydrogenation, Density, Refractive Index 140 (1992) 52
Infra-red Absorption 131–133 (1991) 302
Light Scattering 131–133 (1991) 327
Light Scattering, Density, Oxides 131–133 (1991) 88
Liquids, Modelling, Dielectric Properties 131–133 (1991) 348
Mechanical Properties, Nuclear Magnetic Resonance 131–133 (1991) 563
Mechanical Properties, Polymers 131–133 (1991) 898
Mechanical Properties, Relaxation, Polymers 131–133 (1991) 462
Mechanical Properties, Thermodynamics 131–133 (1991) 836
Mechanical Properties, Thermodynamics, Polymers 131–133 (1991) 497
Mechanical Properties, Viscosity, Polymers 131–133 (1991) 570
Metallic Glasses, Thermodynamics 135 (1991) 73
Mixed-alkali Effect, Thermoelectric Power, Modelling 131–133 (1991) 1076
Modelling 131–133 (1991) 120
Modelling 131–133 (1991) 153
Modelling 131–133 (1991) 293
Modelling, Polymers, Differential Thermal Analysis 139 (1992) 78
Molecular Dynamics 131–133 (1991) 860
Molecular Dynamics, Polymers 131–133 (1991) 95
Monte Carlo simulations 131–133 (1991) 262
Neutron Diffraction 131–133 (1991) 317
Neutron Diffraction 131–133 (1991) 357
Neutron Diffraction, Polymers 131–133 (1991) 53
Polymers 131–133 (1991) 169
Porosity, Organic–Inorganic Hybrids 131–133 (1991) 221
Relaxation 131–133 (1991) 66
Relaxation 131–133 (1991) 442
Relaxation, Chalcogenides 131–133 (1991) 524
Relaxation, Chalcogenides 140 (1992) 209
Relaxation, Fluorides, Chalcogenides 131–133 (1991) 182
Relaxation, Modelling 131–133 (1991) 204
Relaxation, Polymers 131–133 (1991) 942
Relaxation, Polymers 131–133 (1991) 1140
Theory, Molecular Dynamics 131–133 (1991) 62
Thermalization, Differential Thermal Analysis 131–133 (1991) 483
Thermodynamics, Thermal Properties 131–133 (1991) 435
Viscosity 140 (1992) 119

Glasses Containing Transition Metal Ions
Chalcogenides, Electron Spin Resonance 136 (1991) 76
Chemical Modification 140 (1992) 331
Electron Diffraction 140 (1992) 297
Electron Spin Resonance, Magnetic Properties 140 (1992) 314
Electron Spin Resonance, Magnetic Properties 140 (1992) 319
Magnetic Properties, Metallic Glasses 136 (1991) 91
Phosphates, EXAFS, Structure 136 (1991) 198

Glasses Containing Transition Metal Ions *(continued)*
Short-Range Order, Alloys, X-ray Diffraction 135 (1991) 248
Thin Films, Nitridation, Optical Properties 135 (1991) 236

Glow Discharge
Amorphous Solids, Defects, Plasma Deposition, Silicon 137&138 (1991) 795
Amorphous Solids, Hydrogen Effects, Silicon, Structure 137&138 (1991) 673
Doping, Hydrogenation, Plasma Deposition, Silicon Alloys 137&138 (1991) 701
Ellipsometry, Growth Kinetics, Infra-red Absorption, Silicon 137&138 (1991) 771
Ellipsometry, Growth Kinetics, Infra-red Absorption, Silicon 137&138 (1991) 775
Growth Kinetics, Infra-red Absorption, Surface Analysis, Silicon Alloys 137&138 (1991) 765
Growth Kinetics, Photoconductivity, Solar Cells, Surface Reactions 137&138 (1991) 717
Hydrogen Effects, Silicon Alloys, Thermodynamics 137&138 (1991) 645
Non-linear Optics, Silicon Alloys, Silicon Nitride, Switching 137&138 (1991) 631

Grating
Diffusion, Photoconductivity, Recombination, Stäbler–Wronski Effect 137&138 (1991) 475
Photoconductivity, Optical Properties, Electrical Properties 137&138 (1991) 483

Growth Kinetics
Amorphous Solids, Electrical Properties and Relaxation, Experimental Techniques, Kinetics 137&138 (1991) 487
Amorphous Solids, Ellipsometry, Nucleation, Silicon 137&138 (1991) 787
Amorphous Solids, Hydrogenation, Microstructure, Modelling 137&138 (1991) 649
Chalcogenides, Crystallization, Glass Transition 136 (1991) 67
Deposition Techniques, Hydrogen Effects 137&138 (1991) 693
Diffusion, Deposition Techniques, Germanium, Plasma Deposition 137&138 (1991) 745
Ellipsometry, Glow Discharge, Infra-red Absorption, Silicon 137&138 (1991) 771
Ellipsometry, Glow Discharge, Infra-red Absorption, Silicon 137&138 (1991) 775
Ellipsometry, Hydrogen Effects, Thin Films, Silicon 137&138 (1991) 791
Germanium, Plasma Deposition, Silicon, Solar Cells – Tandem 137&138 (1991) 799
Glow Discharge, Infra-red Absorption, Surface Analysis, Silicon Alloys 137&138 (1991) 765
Glow Discharge, Photoconductivity, Solar Cells, Surface Reactions 137&138 (1991) 717
Hydrogen Effects, Infra-red Absorption, Plasma Deposition, Silicon 137&138 (1991) 669
Infra-red Absorption, Polymers, Plasma Deposition, Structure 137&138 (1991) 713
Photoconductivity, Amorphous Solids, Metastability 137&138 (1991) 705
Sputtering, Topology, Monte Carlo simulations 137&138 (1991) 783
Theory, Nucleation, Fluorides 134 (1991) 157

Halide Glasses
Chalcogenides, Glass Transition, Optical Properties 135 (1991) 49
Chemical Durability 140 (1992) 112
Chemical Modification, Chemical Durability 140 (1992) 41
Crystallization, Glass Transition, Thermal Properties 140 (1992) 1
Electrical Properties and Relaxation, Ionic Conductivity 131–133 (1991) 1028
Infra-red Absorption 140 (1992) 77
Ionic Conductivity, Oxides 136 (1991) 219
Lasers 135 (1991) 90
Structure, Differential Thermal Analysis, Electron Spin Resonance 136 (1991) 14
Transport Properties – Solids, Chalcogenides, Electric Properties 136 (1991) 81

Hardness
Polymers, Glass Transition 131–133 (1991) 584

Heat Capacity
Modelling, Silicates, Differential Thermal Analysis 139 (1992) 239

Heterojunctions
Computer Simulation, Defects, Interfaces, Modelling 137&138 (1991) 1201
Detectors, High Field Effects, Photoreceptor, Tunneling 137&138 (1991) 1283
Injection of Carriers, Interfaces, Surface Properties, Switching 137&138 (1991) 1067
Silicon Alloys, Mobility Edge 137&138 (1991) 1075

High Field Effects
Detectors, Heterojunctions, Photoreceptor, Tunneling 137&138 (1991) 1283
Hopping, Mobility Edge, Mobility, Time-of-Flight 137&138 (1991) 407

Hopping
Amorphous Solids, Carbon, Density of States, Doping 137&138 (1991) 831
Amorphous Solids, Multilayers, Transport Properties – Solids 137&138 (1991) 1111
Capacitance Methods, Photoconductivity, Thin Films 137&138 (1991) 419
Computer Simulation, Mobility, Monte Carlo simulations, Percolation 137&138 (1991) 415
Density of States, Monte Carlo simulations, Recombination, Tunneling 137&138 (1991) 579
Density of States, Porosity, Silicon Nitride 137&138 (1991) 515
Electrical Properties and Relaxation, Electronic Conductivity 131–133 (1991) 1099
Gap States, Photoconductivity, Time-of-Flight, Time-Resolved Spectroscopy 137&138 (1991) 443
Germanium, Computer Simulation, Photoconductivity, Semiconductors 137&138 (1991) 843
High Field Effects, Mobility Edge, Mobility, Time-of-Flight 137&138 (1991) 407
Luminescence, Monte Carlo simulations, Recombination, Tunneling 137&138 (1991) 587
Luminescence, Recombination, Theory, Monte Carlo simulations 137&138 (1991) 567
Luminescence, Theory 137&138 (1991) 503
Mobility, Multilayers, Silicon 137&138 (1991) 1147
Photoconductivity, Recombination, Quenching 137&138 (1991) 467

Hydrogen Effects
Alloys, Deposition Techniques 137&138 (1991) 653
Amorphous Solids, Defects, Semiconductors, Silicon 137&138 (1991) 17
Amorphous Solids, Deposition Techniques, Electrical Properties 137&138 (1991) 721
Amorphous Solids, Diffusion, Effusion, Hydrogen in Glass 137&138 (1991) 53
Amorphous Solids, Diffusion, Germanium, Silicon Alloys 137&138 (1991) 37
Amorphous Solids, Germanium, Microwave, Plasma Deposition 137&138 (1991) 749
Amorphous Solids, Glow Discharge, Silicon, Structure 137&138 (1991) 673
Amorphous Solids, Optical Properties, Interfaces, Gap States 137&138 (1991) 1071
Amorphous Solids, Photo-emission, Tin Oxide, Interfaces 137&138 (1991) 1091
Amorphous Solids, Semiconductors, Silicon Alloys 137&138 (1991) 95
Amorphous Solids, Silicon, Molecular Orbital Calculation, Theory 137&138 (1991) 295
Amorphous Solids, Silicon Alloys, Electrical Properties and Relaxation, Electron Diffraction 137&138 (1991) 907
Auger Electron Spectroscopy, Diffusion, Surface Reactions 137&138 (1991) 1087
Bonding, Doping, Plasma Deposition, Silicon Alloys 137&138 (1991) 119
Chalcogenides, Infra-red Absorption, Fibers 140 (1992) 324
Chemical Modification 140 (1992) 57
Crystallization, Infra-red Absorption, Raman Spectra 137&138 (1991) 91
Crystallization, Lasers, Microstructure, Raman Spectra, Silicon 137&138 (1991) 729
Defects, Equilibrium, Photoinduced Effects, Thermodynamics 137&138 (1991) 157
Defects, Experimental Techniques, Photo Voltage, Silicon 137&138 (1991) 79
Defects, Interfaces, Oxides, Stability 137&138 (1991) 1079
Defects, Microstructure, Silicon Nitride, Stability 137&138 (1991) 61
Density of States, Optical Properties, Ellipsometry, Amorphous Solids 137&138 (1991) 331
Deposition Techniques, Silicon, Stability, Stäbler–Wronski Effect 137&138 (1991) 235
Electron Spin Resonance, Nuclear Magnetic Resonance, Stäbler–Wronski Effect, Recombination 137&138 (1991) 247
Electronic Structure, Gap States, Hydrogenation, Photo-emission 137&138 (1991) 327
Ellipsometry, Growth Kinetics, Thin Films, Silicon 137&138 (1991) 791
Glow Discharge, Silicon Alloys, Thermodynamics 137&138 (1991) 645
Growth Kinetics, Deposition Techniques 137&138 (1991) 693
Growth Kinetics, Infra-red Absorption, Plasma Deposition, Silicon 137&138 (1991) 669
Hydrogenation, Metastability, Silicon 137&138 (1991) 11
Hydrogenation, Photoinduced Effects, Stäbler–Wronski Effect, Valence Band 137&138 (1991) 375
Infra-red Absorption, Structure, Silicon Alloys 137&138 (1991) 49
Metastability, Doping, Electrical Properties and Relaxation 137&138 (1991) 167
Silica, Diffusion, Reactions 139 (1992) 35
Silicon, Nitrogen, Infra-red Absorption 139 (1992) 248
Structure, Relaxation, Boron, Diffusion 137&138 (1991) 179
Thin Films, Optical Properties, Oxynitride Glasses 139 (1992) 146

Hydrogen in Glass
Amorphous Solids, Annealing Effects, Effusion, Interfaces 137&138 (1991) 1139

Hydrogen in Glass *(continued)*
Amorphous Solids, Diffusion, Effusion, Hydrogen Effects 137&138 (1991) 53
Diffusion, Defects, Metastability, Dangling Bonds 137&138 (1991) 33
Optical Properties, Fluorides, Hydrogenation 135 (1991) 189
Silicon, Microstructure, Photoinduced Effects 139 (1992) 157

Hydrogenation
Amorphous Solids, Deposition Techniques, Photoinduced Effects, Thin Films 137&138 (1991) 685
Amorphous Solids, Field Effect, Silicon, Thin Films 137&138 (1991) 1209
Amorphous Solids, Growth Kinetics, Microstructure, Modelling 137&138 (1991) 649
Amorphous Solids, Optical Properties 137&138 (1991) 57
Diffusion, Amorphous Solids, Dangling Bonds 137&138 (1991) 21
Doping, Glow Discharge, Plasma Deposition, Silicon Alloys 137&138 (1991) 701
Electronic Structure, Gap States, Hydrogen Effects, Photo-emission 137&138 (1991) 327
Germanium, Diffusion, Annealing Effects 137&138 (1991) 41
Glass Transition, Density, Refractive Index 140 (1992) 52
Hydrogen Effects, Metastability, Silicon 137&138 (1991) 11
Hydrogen Effects, Photoinduced Effects, Stäbler–Wronski Effect, Valence Band 137&138 (1991) 375
Kinetics, Silicon, Stability, Amorphous Solids 137&138 (1991) 45
Optical Properties, Fluorides, Hydrogen in Glass 135 (1991) 189

Image Sensors
Detectors, X-ray Sensor 137&138 (1991) 1321
Diodes, Photoresponse, Transient Effects, Trapping 137&138 (1991) 1309

Impurities
Chalcogenides 139 (1992) 121
Chalcogenides, Chemical Modification 134 (1991) 239
Dangling Bonds, Electron Spin Resonance, Silicon, Stäbler–Wronski Effect 137&138 (1991) 391
Glass Formation, Crystallization 140 (1992) 229
Optical Fibers, Glass Formation, Crystallization 140 (1992) 293

Infra-red Absorption
Amorphous Solids, Alloys, Electrical Properties 137&138 (1991) 911
Borates, Ionic Conductivity 131–133 (1991) 1089
Chalcogenides, Hydrogen Effects, Fibers 140 (1992) 324
Chalcohalides, Glass Formation, Raman Spectra 136 (1991) 205
Chalcohalides, Raman Spectra, Structure 134 (1991) 86
Chemical Durability, Differential Thermal Analysis 140 (1992) 225
Crystallization, Borates 131–133 (1991) 1068
Crystallization, Hydrogen Effects, Raman Spectra 137&138 (1991) 91
Dielectric Properties, Oxides 131–133 (1991) 994
Electron Diffraction, Photoinduced Effects, Plasma Deposition, Raman Spectra 137&138 (1991) 1001
Ellipsometry, Glow Discharge, Growth Kinetics, Silicon 137&138 (1991) 771
Ellipsometry, Glow Discharge, Growth Kinetics, Silicon 137&138 (1991) 775
Germanates, Structure 134 (1991) 259
Glass Transition 131–133 (1991) 302
Glow Discharge, Growth Kinetics, Surface Analysis, Silicon Alloys 137&138 (1991) 765
Growth Kinetics, Hydrogen Effects, Plasma Deposition, Silicon 137&138 (1991) 669
Growth Kinetics, Polymers, Plasma Deposition, Structure 137&138 (1991) 713
Halide Glasses 140 (1992) 77
Hydrogen Effects, Structure, Silicon Alloys 137&138 (1991) 49
Nuclear Magnetic Resonance, Structure, Silicates 136 (1991) 249
Optical Properties, Fibers, Silicates 136 (1991) 137
Optical Properties, Polymers 131–133 (1991) 676
Oxides, Ionic Conductivity, Nuclear Magnetic Resonance 136 (1991) 227
Oxides, Raman Spectra, Structure 134 (1991) 77
Refractive Index, Oxides, Silicates, Germanates 135 (1991) 114
Semiconductors, Thin Films, Pressure Effects 135 (1991) 67
Silicon, Hydrogen Effects, Nitrogen 139 (1992) 248
Sol–Gel Processes, EXAFS 136 (1991) 103
Sol–Gel Processes, Silica, Density 135 (1991) 29
Structure, Borates 131–133 (1991) 1092
Structure, Raman Spectra 140 (1992) 92
Thin Films, Semiconductors, Crystallization 134 (1991) 226

Injection of Carriers
Alloys, Carbon, Photoresponse, Photo-deposition 137&138 (1991) 1313

Injection of Carriers *(continued)*
Amorphous Solids, Diodes, Electroluminescence, Silicon 137&138 (1991) 595
Diodes, Electroluminescence, Photoresponse, Transport Properties – Devices 137&138 (1991) 1267
Diodes, Electroluminescence, Plasma Deposition, Silicon Alloys 137&138 (1991) 1271
Diodes, Electroluminescence, Recombination 137&138 (1991) 599
Diodes, Light Modulators, Transient Effects, Transport Properties – Devices 137&138 (1991) 1301
Electronic Conductivity, Interfaces, Photoconductivity, Silicon Alloys 137&138 (1991) 1279
Heterojunctions, Interfaces, Surface Properties, Switching 137&138 (1991) 1067
Solar Cells, Photoconductivity, Optical Properties, Recombination 137&138 (1991) 1181

Interfaces
Amorphous Solids, Annealing Effects, Effusion, Hydrogen in Glass 137&138 (1991) 1139
Amorphous Solids, Capacitance Methods, Gap States, Silicon Nitride 137&138 (1991) 1051
Amorphous Solids, Density of States, Silicon 137&138 (1991) 447
Amorphous Solids, Equilibrium, Metastability, Thin Film Transistors 137&138 (1991) 1221
Amorphous Solids, Field Effect, Liquid Crystal Displays, Thin Film Transistors 137&138 (1991) 1245
Amorphous Solids, Multilayers, Optical Properties, Glass Ceramics 137&138 (1991) 1103
Amorphous Solids, Optical Properties, Hydrogen Effects, Gap States 137&138 (1991) 1071
Amorphous Solids, Photo-emission, Tin Oxide, Hydrogen Effects 137&138 (1991) 1091
Computer Simulation, Defects, Heterojunctions, Modelling 137&138 (1991) 1201
Defects, Hydrogen Effects, Oxides, Stability 137&138 (1991) 1079
Defects, Multilayers, Optical Properties, Photoinduced Effects 137&138 (1991) 1135
Defects, Stäbler–Wronski Effect, Mobility 137&138 (1991) 1143
Electronic Conductivity, Injection of Carriers, Photoconductivity, Silicon Alloys 137&138 (1991) 1279
Heterojunctions, Injection of Carriers, Surface Properties, Switching 137&138 (1991) 1067
Kinetics, Surface Reactions, Ellipsometry, Rutherford Backscattering 137&138 (1991) 1055
Multilayers, Electroabsorption, Absorption 137&138 (1991) 1131
Neutron Diffraction, Polymers 131–133 (1991) 703
Photoconductivity, Plasma Deposition, Silicon, Thin Film Transistors 137&138 (1991) 677
Stability, Solar Cells, Metastability 137&138 (1991) 1189
Time-of-Flight, Transient Effects, Transport Properties – Devices, Modelling 137&138 (1991) 451

Internal Friction
Chalcogenides, Density of States 137&138 (1991) 989
Dielectric Properties, Chalcogenides 131–133 (1991) 1072

Ion Implantation
Crystallization, Silica, Kinetics 134 (1991) 129
Electron Spin Resonance, Fluorides 137&138 (1991) 383

Ionic Conductivity
Amorphous Solids, Chalcogenides, Diffusion, Photoinduced Effects 137&138 (1991) 1021
Dielectric Properties, Oxides, Sol–Gel Processes 131–133 (1991) 1227
Electrical Properties and Relaxation 140 (1992) 103
Electrical Properties and Relaxation, Fluorides 140 (1992) 238
Electrical Properties and Relaxation, Halide Glasses 131–133 (1991) 1028
Halide Glasses, Oxides 136 (1991) 219
Infra-red Absorption, Borates 131–133 (1991) 1089
Nuclear Magnetic Resonance, Relaxation 139 (1992) 257
Oxides, Modelling 136 (1991) 60
Oxides, Nuclear Magnetic Resonance, Infra-red Absorption 136 (1991) 227
Percolation, Modelling 131–133 (1991) 213
Structure, Silicates 131–133 (1991) 955

Junctions
Amorphous Solids, Transient Effects 137&138 (1991) 459
Silicon 134 (1991) 141
Solar Cells, Diodes, Photo Voltage, Computer Simulation, Amorphous Solids 137&138 (1991) 1205

Kinetics
Amorphous Solids, Deposition Techniques, Germania, Plasma Deposition, Thin Films 137&138 (1991) 779
Amorphous Solids, Electrical Properties and Relaxation, Experimental Techniques, Growth Kinetics 137&138 (1991) 487
Amorphous Solids, Equilibrium, Dangling Bonds 137&138 (1991) 207
Amorphous Solids, Recombination, Luminescence 137&138 (1991) 571

Kinetics *(continued)*
Chalcogenides, Photoinduced Effects, Thin Films 137&138 (1991) 1013
Crystallization, Silica, Ion Implantation 134 (1991) 129
Defects, Metastability, Dangling Bonds 137&138 (1991) 203
Hydrogenation, Silicon, Stability, Amorphous Solids 137&138 (1991) 45
Interfaces, Surface Reactions, Ellipsometry, Rutherford Backscattering 137&138 (1991) 1055
Molecular Dynamics, Amorphous Solids, Silicon 137&138 (1991) 145
Photoconductivity, Photomodulation, Silicon 137&138 (1991) 611
Stability, Solar Cells, Modelling 137&138 (1991) 1185
Stäbler–Wronski Effect, Density of States, Equilibrium 137&138 (1991) 227

Lasers
Chalcogenides, Optical Properties 139 (1992) 67
Crystallization, Hydrogen Effects, Microstructure, Raman Spectra, Silicon 137&138 (1991) 729
Fibers 140 (1992) 10
Fibers 140 (1992) 19
Fibers 140 (1992) 179
Fluorescence Spectra, Oxides 139 (1992) 151
Halide Glasses 135 (1991) 90
Non-oxide Glasses, Thermal Properties 131–133 (1991) 375
Optical Properties 140 (1992) 150
Optical Properties, Non-linear Optics 136 (1991) 213
Optical Properties, Non-linear Optics 140 (1992) 123
Silica, Defects, Electron Spin Resonance 131–133 (1991) 1240
Stability, Stäbler–Wronski Effect, Annealing Effects, Defects 137&138 (1991) 223

Light Modulators
Diodes, Injection of Carriers, Transient Effects, Transport Properties – Devices 137&138 (1991) 1301
Semiconductors, Diodes, Liquid Crystal Displays, Structure, Amorphous Solids 137&138 (1991) 1325

Light Scattering
Absorption, Contacts, Gap States, Photoconductivity 137&138 (1991) 615
Amorphous Solids, Fractals, Raman Spectra, Silicon 137&138 (1991) 103
Density, Oxides, Glass Transition 131–133 (1991) 88
Dielectric Properties, Density, Polymers 131–133 (1991) 144
Dielectric Properties, Mechanical Properties, Polymers 131–133 (1991) 579
Diffusion, Polymers 131–133 (1991) 624
Diffusion, Polymers 131–133 (1991) 630
Diffusion, Sol–Gel Processes 131–133 (1991) 671
Glass Transition 131–133 (1991) 327
Light Scattering 131–133 (1991) 76
Mechanical Properties, Ultrasonic Relaxation 131–133 (1991) 870
Polymers 131–133 (1991) 799
Polymers, Liquids 131–133 (1991) 816
Polymers, Raman Spectra 131–133 (1991) 104
Polymers, Relaxation 131–133 (1991) 139
Polymers, Structure 131–133 (1991) 134
Relaxation, Optical Properties 131–133 (1991) 823
Relaxation, Phase Separation 131–133 (1991) 275
Solar Cells, Optical Properties, Absorption 137&138 (1991) 1165

Liquid Crystal Displays
Amorphous Solids, Field Effect, Interfaces, Thin Film Transistors 137&138 (1991) 1245
Semiconductors, Diodes, Light Modulators, Structure, Amorphous Solids 137&138 (1991) 1325

Liquid Metals
Theory, Electron–Lattice Interactions 136 (1991) 173

Liquid Semiconductors
Mechanical Properties, Structure 136 (1991) 37

Liquids
Chalcogenides, Crystallization, Phase Transition, Time-Resolved Spectroscopy 137&138 (1991) 1005
Colloids, Glass Transition 131–133 (1991) 289
Dielectric Properties 131–133 (1991) 1169
Electric Properties, Electrochemical Properties 140 (1992) 215
Light Scattering, Polymers 131–133 (1991) 816
Modelling, Dielectric Properties, Glass Transition 131–133 (1991) 348
Nuclear Magnetic Resonance 131–133 (1991) 693
Nuclear Magnetic Resonance, Polymers 131–133 (1991) 509
Optical Properties, Viscosity, Polymers 131–133 (1991) 537
Polymers 131–133 (1991) 604
Relaxation 131–133 (1991) 161
Structure 131–133 (1991) 643

Localization
Amorphous Solids, Alloys, Polymers, Transport Properties – Solids 137&138 (1991) 927
Amorphous Solids, Carbon, Tetrahedral Materials, Density of States 137&138 (1991) 825
Electrical Properties, Thin Films, Metal–Insulator Transition 137&138 (1991) 519

Luminescence
Absorption, Defects, Recombination 137&138 (1991) 591
Amorphous Solids, Absorption, Boron, Optical Properties 137&138 (1991) 919
Amorphous Solids, Electron–Lattice Interactions, Multilayers, Silicon 137&138 (1991) 1123
Amorphous Solids, Recombination, Kinetics 137&138 (1991) 571
Chalcogenides, Optical Properties, Phase Transition, Raman Spectra 137&138 (1991) 959
Defects, Recombination, Microwave 137&138 (1991) 583
Electronic Conductivity, Multilayers, Optical Properties, Superlattices 137&138 (1991) 1119
Hopping, Monte Carlo simulations, Recombination, Tunneling 137&138 (1991) 587
Hopping, Recombination, Theory, Monte Carlo simulations 137&138 (1991) 567
Hopping, Theory 137&138 (1991) 503
Optical Properties, Absorption 140 (1992) 243
Recombination, Amorphous Solids, Electron Spin Resonance, Silicon 137&138 (1991) 551
Recombination, Silicon 137&138 (1991) 555
Semiconductors, Surface Analysis, Deposition Techniques, XPS 135 (1991) 243
Silicon Alloys, Time-Resolved Spectroscopy 137&138 (1991) 859
Tails, Thermalization, Transient Effects, Silicon 137&138 (1991) 575
Time-Resolved Spectroscopy, Recombination 137&138 (1991) 539
Time-Resolved Spectroscopy, Recombination, Monte Carlo simulations 137&138 (1991) 559

Magnetic Properties
Electron Spin Resonance, Glasses Containing Transition Metal Ions 140 (1992) 314
Electron Spin Resonance, Glasses Containing Transition Metal Ions 140 (1992) 319
Glasses Containing Transition Metal Ions, Metallic Glasses 136 (1991) 91
Metallic Glasses, Relaxation 131–133 (1991) 1235
Structure 134 (1991) 100

Mechanical Properties
Fibers, Electron Diffraction, Optical Properties 140 (1992) 199
Glass Formation, Chemical Durability 140 (1992) 87
Glass Formation, Polymers, Dielectric Properties 131–133 (1991) 1
Glass Transition, Nuclear Magnetic Resonance 131–133 (1991) 563
Glass Transition, Polymers 131–133 (1991) 898
Glass Transition, Thermodynamics 131–133 (1991) 836
Glass Transition, Thermodynamics, Polymers 131–133 (1991) 497
Glass Transition, Viscosity, Polymers 131–133 (1991) 570
Light Scattering, Dielectric Properties, Polymers 131–133 (1991) 579
Light Scattering, Ultrasonic Relaxation 131–133 (1991) 870
Liquid Semiconductors, Structure 136 (1991) 37
Modelling 131–133 (1991) 467
Optical Properties, Polymers 131–133 (1991) 781
Percolation 131–133 (1991) 1018
Polymers 131–133 (1991) 408
Polymers 131–133 (1991) 891
Polymers, Relaxation 131–133 (1991) 84
Polymers, Structure 131–133 (1991) 516
Polymers, Thermal Properties 131–133 (1991) 37
Polymers, Viscosity 131–133 (1991) 793
Relaxation, Glass Transition, Polymers 131–133 (1991) 462
Relaxation, Polymers 131–133 (1991) 887
Stress Relaxation, Structure, Germanium 137&138 (1991) 83
Viscosity, Diffusion, Polymers 131–133 (1991) 505

Medium-Range Order
Amorphous Solids, Acoustic Properties, Modelling, Photoinduced Effects 137&138 (1991) 967
Amorphous Solids, Chalcogenides, EXAFS, Modelling 137&138 (1991) 127
Optical Properties, Structure, Silicon, Raman Spectra 137&138 (1991) 99

Membranes
Membranes 131–133 (1991) 207
Nuclear Magnetic Resonance 131–133 (1991) 556
Thin Film Transistors, Silicon Nitride, Electrochemical Properties 137&138 (1991) 1253

Memory Behaviour
Amorphous Solids, Forming, Switching, Silicon 137&138 (1991) 499
Amorphous Solids, Forming, Switching, Silicon 137&138 (1991) 1257

Metal–Insulator Transition
Electrical Properties, Localization, Thin Films 137&138 (1991) 519

Metallic Glasses
Crystallization, Phase Separation 134 (1991) 296

Metallic Glasses *(continued)*
Crystallization, X-ray Diffraction 135 (1991) 265
Magnetic Properties, Glasses Containing Transition Metal Ions 136 (1991) 91
Magnetic Properties, Relaxation 131–133 (1991) 1235
Neutron Diffraction, Modelling 135 (1991) 146
Quenching, Silicates, Theory 136 (1991) 266
Thermodynamics, Glass Transition 135 (1991) 73

Metastability
Absorption, Electronic Conductivity, Defects, Electrical Properties and Relaxation 137&138 (1991) 511
Amorphous Solids, Electron Spin Resonance, Gap States, Silicon 137&138 (1991) 183
Amorphous Solids, Equilibrium, Interfaces, Thin Film Transistors 137&138 (1991) 1221
Amorphous Solids, Gap States, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 835
Amorphous Solids, Semiconductors, Tetrahedral Materials 137&138 (1991) 709
Bonding, Dangling Bonds, Electrical Properties and Relaxation, Electron–Lattice Interactions 137&138 (1991) 219
Dangling Bonds, Electron Spin Resonance, Gap States, Silicon Nitride 137&138 (1991) 291
Dangling Bonds, Electron Spin Resonance, Pressure Effects 137&138 (1991) 275
Defects, Density of States, Equilibrium, Silicon 137&138 (1991) 259
Defects, Electronic Conductivity, Stäbler–Wronski Effect 137&138 (1991) 263
Defects, Kinetics, Dangling Bonds 137&138 (1991) 203
Diffusion, Hydrogen in Glass, Defects, Dangling Bonds 137&138 (1991) 33
Equilibrium, Gap States, Dangling Bonds, Density of States 137&138 (1991) 315
Equilibrium, Germanium, Quenching, Relaxation 137&138 (1991) 187
Hydrogen Effects, Doping, Electrical Properties and Relaxation 137&138 (1991) 167
Hydrogen Effects, Hydrogenation, Silicon 137&138 (1991) 11
Metastability 137&138 (1991) 283
Photoconductivity, Amorphous Solids, Growth Kinetics 137&138 (1991) 705
Photoconductivity, Polymers, Photoinduced Effects, Time-of-Flight 137&138 (1991) 271
Photoinduced Effects, Defects, Multilayers, Silicon Alloys, Stäbler–Wronski Effect 137&138 (1991) 287
Stability, Solar Cells, Interfaces 137&138 (1991) 1189

Microstructure
Amorphization, Crystallization, Optical Properties, Silicon Alloys 137&138 (1991) 635
Amorphous Solids, Growth Kinetics, Hydrogenation, Modelling 137&138 (1991) 649
Annealing Effects, Plasma Deposition, Structure, Silicon 137&138 (1991) 681
Crystallization, Hydrogen Effects, Lasers, Raman Spectra, Silicon 137&138 (1991) 729
Defects, Hydrogen Effects, Silicon Nitride, Stability 137&138 (1991) 61
Density of States, Electric Properties, Optical Properties 137&138 (1991) 371
Microstructure 131–133 (1991) 1224
Plasma Deposition, Silicon Alloys, Silicon Nitride, Thin Films 137&138 (1991) 879
Quantum Wells, Chalcogenides, Silica, Electron Microscopy 134 (1991) 233
Silicon, Hydrogen in Glass, Photoinduced Effects 139 (1992) 157
Silicon Nitride, Electronic Structure, Optical Properties, Electrical Properties 137&138 (1991) 883
Transport Properties – Solids, Electronic Conductivity, Theory 137&138 (1991) 507

Microwave
Amorphous Solids, Germanium, Hydrogen Effects, Plasma Deposition 137&138 (1991) 749
Amorphous Solids, Silicon, Density of States, Field Effect 137&138 (1991) 1241
Defects, Recombination, Luminescence 137&138 (1991) 583

Mixed-alkali Effect
Glass Formation 140 (1992) 345
Glass Transition, Thermoelectric Power, Modelling 131–133 (1991) 1076
Modelling 131–133 (1991) 1109

Mobility
Amorphous Solids, Photo Voltage, Silicon, Transport Properties – Solids 137&138 (1991) 455
Chalcogenides, Photoconductivity, Devices, Thermal Properties 137&138 (1991) 947
Computer Simulation, Hopping, Monte Carlo simulations, Percolation 137&138 (1991) 415
Density of States, Experimental Techniques, Electronic Conductivity, Deposition Techniques 137&138 (1991) 355
Density of States, Silicon, Time-of-Flight 137&138 (1991) 411
High Field Effects, Hopping, Mobility Edge, Time-of-Flight 137&138 (1991) 407
Hopping, Multilayers, Silicon 137&138 (1991) 1147
Interfaces, Defects, Stäbler–Wronski Effect 137&138 (1991) 1143

Mobility *(continued)*
Photoconductivity, Recombination, Trapping, Transient Effects 137&138 (1991) 435
Silicon, Solar Cells, Time-of-Flight, Trapping 137&138 (1991) 427

Mobility Edge
High Field Effects, Hopping, Mobility, Time-of-Flight 137&138 (1991) 407
Silicon Alloys, Heterojunctions 137&138 (1991) 1075

Modelling
Alloys, Thermodynamics 139 (1992) 107
Amorphous Solids, Acoustic Properties, Medium-Range Order, Photoinduced Effects 137&138 (1991) 967
Amorphous Solids, Chalcogenides, EXAFS, Medium-Range Order 137&138 (1991) 127
Amorphous Solids, Growth Kinetics, Hydrogenation, Microstructure 137&138 (1991) 649
Computer Simulation, Defects, Heterojunctions, Interfaces 137&138 (1991) 1201
Crystallization 134 (1991) 116
Defects, Density of States 139 (1992) 179
Deposition Techniques, Silicon Alloys, Thermodynamics, Theory 137&138 (1991) 871
Dielectric Properties 131–133 (1991) 1096
Dielectric Properties, Polymers 131–133 (1991) 728
Diffusion, Polymers 131–133 (1991) 593
Diffusion, Transport Properties – Solids, Theory 131–133 (1991) 1022
Diffusion, Transport Properties – Solids, Thermal Properties 131–133 (1991) 667
Electrophotography, Photoreceptor 137&138 (1991) 1329
Glass Formation 140 (1992) 184
Glass Transition 131–133 (1991) 120
Glass Transition 131–133 (1991) 153
Glass Transition 131–133 (1991) 293
Glass Transition, Polymers, Differential Thermal Analysis 139 (1992) 78
Glass Transition, Relaxation 131–133 (1991) 204
Heat Capacity, Silicates, Differential Thermal Analysis 139 (1992) 239
Ionic Conductivity, Oxides 136 (1991) 60
Ionic Conductivity, Percolation 131–133 (1991) 213
Liquids, Dielectric Properties, Glass Transition 131–133 (1991) 348
Mechanical Properties 131–133 (1991) 467
Metallic Glasses, Neutron Diffraction 135 (1991) 146
Mixed-alkali Effect 131–133 (1991) 1109
Mixed-alkali Effect, Glass Transition, Thermoelectric Power 131–133 (1991) 1076
Modelling 135 (1991) 155
Molecular Dynamics, Pressure Effects 140 (1992) 350
Monte Carlo simulations, Diffusion 131–133 (1991) 635
Oxides, Refractive Index, Density 139 (1992) 93
Polymers 131–133 (1991) 225
Polymers, Diffusion 131–133 (1991) 654
Polymers, Elastic Properties, Viscosity 131–133 (1991) 831
Polymers, Molecular Dynamics 131–133 (1991) 612
Polymers, Relaxation 131–133 (1991) 715
Preforms, Viscosity 140 (1992) 255
Relaxation 131–133 (1991) 32
Relaxation 131–133 (1991) 192
Relaxation 131–133 (1991) 210
Relaxation 131–133 (1991) 420
Relaxation 131–133 (1991) 935
Relaxation, Molecular Dynamics 131–133 (1991) 177
Relaxation, Specific Heat 131–133 (1991) 310
Silicon Alloys, Solar Cells, Stäbler–Wronski Effect, Solar Cells – Tandem 137&138 (1991) 1197
Silicon Alloys, Thin Films, Photoemission 134 (1991) 218
Solar Cells, Silicon, Photoresponse, Amorphous Solids 137&138 (1991) 1193
Stability, Solar Cells, Kinetics 137&138 (1991) 1185
Structure 131–133 (1991) 1213
Structure 134 (1991) 107
Structure, X-ray Diffraction 136 (1991) 27
Theory, Relaxation 131–133 (1991) 1260
Thermodynamics 131–133 (1991) 313
Thin Film Transistors, Density of States 137&138 (1991) 1229
Time-of-Flight, Transient Effects, Transport Properties – Devices, Interfaces 137&138 (1991) 451
Tunneling, Electrical Properties and Relaxation 131–133 (1991) 92

Molecular Dynamics
Amorphous Solids, Density of States, Electronic Structure 137&138 (1991) 149
Crystallization, Chemical Durability 140 (1992) 130
Fracture, Oxyhalides 134 (1991) 179
Glass Transition 131–133 (1991) 860
Glass Transition, Polymers 131–133 (1991) 95
Kinetics, Amorphous Solids, Silicon 137&138 (1991) 145
Modelling, Polymers 131–133 (1991) 612
Modelling, Pressure Effects 140 (1992) 350
Modelling, Relaxation 131–133 (1991) 177
Porosity, Sol–Gel Method 139 (1992) 215
Relaxation 131–133 (1991) 109
Relaxation 131–133 (1991) 255
Silicon Alloys, Amorphous Solids 137&138 (1991) 153
Structure, X-ray Diffraction 140 (1992) 249
Structure, X-ray Diffraction, Raman Spectra 140 (1992) 269
Surface Analysis, Stäbler–Wronski Effect, Tails, Semiconductors 137&138 (1991) 141
Theory, Glass Transition 131–133 (1991) 62

Molecular Orbital Calculation
Amorphous Solids, Silicon, Hydrogen Effects, Theory 137&138 (1991) 295

Monte Carlo simulations
Computer Simulation, Hopping, Mobility, Percolation 137&138 (1991) 415
Density of States, Hopping, Recombination, Tunneling 137&138 (1991) 579
Diffusion, Modelling 131–133 (1991) 635
Diffusion, Polymers 131–133 (1991) 650
Glass Transition 131–133 (1991) 262
Hopping, Luminescence, Recombination, Tunneling 137&138 (1991) 587
Luminescence, Hopping, Recombination, Theory 137&138 (1991) 567
Monte Carlo simulations 131–133 (1991) 1190
Sputtering, Topology, Growth Kinetics 137&138 (1991) 783
Time-Resolved Spectroscopy, Recombination, Luminescence 137&138 (1991) 559

Mössbauer Effect
Chalcogenides, Structure, Short-Range Order 139 (1992) 231

Multilayers
Amorphous Solids, Absorption, Silicon Nitride, Superlattices 137&138 (1991) 1115
Amorphous Solids, Defects, Noise, Transport Properties – Solids 137&138 (1991) 1107
Amorphous Solids, Electron–Lattice Interactions, Luminescence, Silicon 137&138 (1991) 1123
Amorphous Solids, Hopping, Transport Properties – Solids 137&138 (1991) 1111
Amorphous Solids, Interfaces, Optical Properties, Glass Ceramics 137&138 (1991) 1103
Amorphous Solids, Optical Properties, Superlattices 137&138 (1991) 1099
Carbon, Electroluminescence 137&138 (1991) 1275
Chalcogenides, Detectors, Electrophotography, Silicon 137&138 (1991) 1151
Defects, Interfaces, Optical Properties, Photoinduced Effects 137&138 (1991) 1135
Electronic Conductivity, Luminescence, Optical Properties, Superlattices 137&138 (1991) 1119
Hopping, Mobility, Silicon 137&138 (1991) 1147
Interfaces, Electroabsorption, Absorption 137&138 (1991) 1131
Photoinduced Effects, Defects, Metastability, Silicon Alloys, Stäbler–Wronski Effect 137&138 (1991) 287

Neutron Diffraction
Diffusion, Nuclear Magnetic Resonance, Viscosity 131–133 (1991) 551
Diffusion, Polymers 131–133 (1991) 620
Diffusion, Polymers 131–133 (1991) 709
Electric Properties 131–133 (1991) 973
Glass Transition 131–133 (1991) 317
Glass Transition 131–133 (1991) 357
Glass Transition, Polymers 131–133 (1991) 53
Metallic Glasses, Modelling 135 (1991) 146
Polymers 131–133 (1991) 697
Polymers, Interfaces 131–133 (1991) 703
Transport Properties – Solids 131–133 (1991) 1104

Nitridation
Oxides, Thermodynamics 135 (1991) 139
Thin Films, Glasses Containing Transition Metal Ions, Optical Properties 135 (1991) 236

Nitrogen
Doping, Electronic Conductivity, Sputtering, Tetrahedral Materials 137&138 (1991) 821
Silicon, Hydrogen Effects, Infra-red Absorption 139 (1992) 248

Nitrogen Containing Glass
Nitrogen Containing Glass 135 (1991) 227

Noise
Amorphous Solids, Defects, Multilayers, Transport Properties – Solids 137&138 (1991) 1107
Dangling Bonds, Time-of-Flight, Tunneling 137&138 (1991) 495
Phosphates, Fluorides 135 (1991) 79
Sol–Gel Precursors, Fibers 134 (1991) 199

Non-linear Optics
Lasers, Optical Properties 140 (1992) 123
Optical Properties, Lasers 136 (1991) 213
Silicon Alloys, Silicon Nitride, Switching, Glow Discharge 137&138 (1991) 631
Sol–Gel Method, Silica 135 (1991) 1
Time-Resolved Spectroscopy, Optical Properties, Electron–Lattice Interactions 137&138 (1991) 531

Non-oxide Glasses
Lasers, Thermal Properties 131–133 (1991) 375
Oxides, Structure 139 (1992) 268

Nuclear Magnetic Resonance
Amorphous Solids, Chalcogenides, Diffusion 137&138 (1991) 1047
Catalysis, Oxides, Sol–Gel Processes 134 (1991) 47

Nuclear Magnetic Resonance *(continued)*
Chalcogenides, Structure, Glass Transition 135 (1991) 171
Dielectric Properties 131–133 (1991) 1063
Dielectric Properties, Relaxation 131–133 (1991) 961
Differential Thermal Analysis, X-ray Diffraction, Polymers 131–133 (1991) 113
Diffusion, Neutron Diffraction, Viscosity 131–133 (1991) 551
Diffusion, Polymers 131–133 (1991) 735
Electrical Properties and Relaxation, Alumina 131–133 (1991) 1011
Electron Spin Resonance, Relaxation 131–133 (1991) 125
Electron Spin Resonance, Stäbler–Wronski Effect, Hydrogen Effects, Recombination 137&138 (1991) 247
Germanium, Semiconductors, Silicon, Stäbler–Wronski Effect 137&138 (1991) 71
Infra-red Absorption, Structure, Silicates 136 (1991) 249
Liquids 131–133 (1991) 693
Mechanical Properties, Glass Transition 131–133 (1991) 563
Membranes 131–133 (1991) 556
Optical Properties, Silicates 135 (1991) 198
Organic–Inorganic Hybrids 131–133 (1991) 99
Oxides, Ionic Conductivity, Infra-red Absorption 136 (1991) 227
Oxides, Relaxation, Structure 136 (1991) 1
Polymers 131–133 (1991) 766
Polymers 131–133 (1991) 777
Polymers, Fluorescence Spectra, Thermal Properties 131–133 (1991) 755
Polymers, Liquids 131–133 (1991) 509
Polymers, Relaxation 131–133 (1991) 949
Relaxation, Ionic Conductivity 139 (1992) 257
Relaxation, Oxides 131–133 (1991) 1001
Sol–Gel Processes, Reactions 134 (1991) 1
Sol–Gel Processes, Silica 134 (1991) 14
Sol–Gel Processes, Silica, Reactions 135 (1991) 15
Sol–Gel Processes, Silica, Reactions 139 (1992) 25
Thermal Properties, Time-Resolved Spectroscopy 140 (1992) 134
Thermoelectric Power 131–133 (1991) 1053
Transport Properties – Solids, Oxides, Structure 135 (1991) 131

Nucleation
Amorphous Solids, Ellipsometry, Growth Kinetics, Silicon 137&138 (1991) 787
Crystallization 140 (1992) 16
Growth Kinetics, Theory, Fluorides 134 (1991) 157
Theory, Small Angle X-ray Scattering, Electron Microscopy 136 (1991) 181

Optical Fibers
Glass Formation, Impurities, Crystallization 140 (1992) 293
Optical Properties, Alloys, Fluorescence Spectra 140 (1992) 233

Optical Properties
Alloys, Fluorescence Spectra, Optical Fibers 140 (1992) 233
Amorphization, Computer Simulation, Electric Properties, Stäbler–Wronski Effect 137&138 (1991) 135
Amorphization, Crystallization, Microstructure, Silicon Alloys 137&138 (1991) 635
Amorphous Solids, Absorption, Boron, Luminescence 137&138 (1991) 919
Amorphous Solids, Absorption, Stäbler–Wronski Effect, Thin Films 137&138 (1991) 623
Amorphous Solids, Chalcogenides, Photoinduced Effects, Structure 137&138 (1991) 977
Amorphous Solids, Chalcogenides, X-ray Diffraction, XPS 137&138 (1991) 963
Amorphous Solids, Computer Simulation, Reflectivity, Secondary Ion Mass Spectroscopy 137&138 (1991) 1095
Amorphous Solids, Electrical Properties and Relaxation, Pressure Effects, Semiconductors, Silicon Alloys 137&138 (1991) 931
Amorphous Solids, Gap States, Metastability, Stäbler–Wronski Effect 137&138 (1991) 835
Amorphous Solids, Hydrogen Effects, Interfaces, Gap States 137&138 (1991) 1071
Amorphous Solids, Hydrogenation 137&138 (1991) 57
Amorphous Solids, Interfaces, Multilayers, Glass Ceramics 137&138 (1991) 1103
Amorphous Solids, Multilayers, Superlattices 137&138 (1991) 1099
Amorphous Solids, Phonons, Recombination, Transient Effects 137&138 (1991) 543
Amorphous Solids, Phonons, Transport Properties – Solids, Transient Effects 137&138 (1991) 527
Amorphous Solids, Refractive Index 137&138 (1991) 619
Applications, Chalcogenides, Photoinduced Effects 137&138 (1991) 1333
Bonding, Silicon Alloys, Structure, EXAFS 137&138 (1991) 899
Boron, Density of States 137&138 (1991) 923
Chalcogenides, Defects, Photoinduced Effects, Polarization 137&138 (1991) 993
Chalcogenides, Electron Spin Resonance, Photoinduced Effects, XPS 137&138 (1991) 985
Chalcogenides, Halide Glasses, Glass Transition 135 (1991) 49
Chalcogenides, Phase Transition, Raman Spectra, Luminescence 137&138 (1991) 959

Optical Properties *(continued)*
Chalcogenides, Photoinduced Effects 135 (1991) 37
Chalcogenides, Photoinduced Effects 137&138 (1991) 981
Chemical Durability 140 (1992) 220
Crystallization, Fibers 140 (1992) 301
Crystallization, Photoinduced Effects, Silicon 137&138 (1991) 1297
Defects, Dynamic Fatigue, Photoconductivity, Polymers 137&138 (1991) 915
Defects, Interfaces, Multilayers, Photoinduced Effects 137&138 (1991) 1135
Defects, Raman Spectra 140 (1992) 307
Density of States, Ellipsometry, Hydrogen Effects, Amorphous Solids 137&138 (1991) 331
Density of States, Thin Films, Sputtering 139 (1992) 60
Diffusion 131–133 (1991) 42
Electron–Lattice Interactions 140 (1992) 25
Electron–Lattice Interactions 140 (1992) 35
Electronic Conductivity, Luminescence, Multilayers, Superlattices 137&138 (1991) 1119
Electronic Structure, Borates, Oxidation Reduction 134 (1991) 147
Electronic Structure, Electroabsorption 137&138 (1991) 627
Excitons, Phase Separation, Oxides, Sol–Gel Processes 134 (1991) 71
Fibers 140 (1992) 146
Fibers 140 (1992) 153
Fibers 140 (1992) 259
Fibers, Electron Diffraction, Mechanical Properties 140 (1992) 199
Fluorides, Fracture 140 (1992) 340
Fluorides, Hydrogenation, Hydrogen in Glass 135 (1991) 189
Fluorides, Structure 131–133 (1991) 1230
Germanium, Electronic Structure, Amorphous Solids, Photoresponse 137&138 (1991) 803
Grating, Photoconductivity, Electrical Properties 137&138 (1991) 483
III–V semiconductors, Silica, Sol–Gel Processes 135 (1991) 182
Infra-red Absorption, Fibers, Silicates 136 (1991) 137
Lasers 140 (1992) 150
Lasers, Chalcogenides 139 (1992) 67
Lasers, Non-linear Optics 140 (1992) 123
Luminescence, Absorption 140 (1992) 243
Mechanical Properties, Polymers 131–133 (1991) 781
Medium-Range Order, Structure, Silicon, Raman Spectra 137&138 (1991) 99
Microstructure, Density of States, Electric Properties 137&138 (1991) 371
Non-linear Optics, Lasers 136 (1991) 213
Photo-emission, Surface Reactions, Oxides 134 (1991) 208
Photoconductivity, Silicon, Tails 137&138 (1991) 343
Polymers, Infra-red Absorption 131–133 (1991) 676
Pressure Effects, Silicates, Reactions 135 (1991) 55
Refractive Index, Thermal Properties, Silica 135 (1991) 86
Relaxation, Light Scattering 131–133 (1991) 823
Semiconductors, Silicon, Stability, Transport Properties – Solids 137&138 (1991) 171
Silicates, Nuclear Magnetic Resonance 135 (1991) 198
Silicon, Electrical Properties and Relaxation 135 (1991) 204
Silicon Nitride, Ellipsometry, Electrical Properties 137&138 (1991) 895
Silicon Nitride, Microstructure, Electronic Structure, Electrical Properties 137&138 (1991) 883
Sol–Gel Processes, Phase Separation, Silicates 139 (1992) 1
Solar Cells, Absorption, Light Scattering 137&138 (1991) 1165
Solar Cells, Photoconductivity, Recombination, Injection of Carriers 137&138 (1991) 1181
Thermal Properties, Fibers, Time-Resolved Spectroscopy 140 (1992) 31
Thin Films, Carbon, Composites, Electronic Structure 136 (1991) 53
Thin Films, Glasses Containing Transition Metal Ions, Nitridation 135 (1991) 236
Thin Films, Hydrogen Effects, Oxynitride Glasses 139 (1992) 146
Time-Resolved Spectroscopy, Nonlinear Optics, Electron–Lattice Interactions 137&138 (1991) 531
Viscosity, Liquids, Polymers 131–133 (1991) 537

Optical Waveguide
Raman Spectra, Phase Separation 140 (1992) 166

Organic–Inorganic Hybrids
Glass Transition, Porosity 131–133 (1991) 221
Nuclear Magnetic Resonance 131–133 (1991) 99

Orientational Glasses
Relaxation 131–133 (1991) 269

Oxidation Reduction
Electronic Structure, Borates, Optical Properties 134 (1991) 147

Oxides
Amorphous Solids, Crystallization, Deposition Techniques, Plasma Deposition, Silicon, Thin Films, X-ray Diffraction 137&138 (1991) 733

Oxides *(continued)*
Catalysis, Sol–Gel Processes, Nuclear Magnetic Resonance 134 (1991) 47
Crystallization 140 (1992) 159
Crystallization, Phase Separation 135 (1991) 95
Defects, Hydrogen Effects, Interfaces, Stability 137&138 (1991) 1079
Density, Refractive Index, Glass Formation 135 (1991) 105
Dielectric Properties, Infra-red Absorption 131–133 (1991) 994
Dielectric Properties, Sol–Gel Processes, Ionic Conductivity 131–133 (1991) 1227
Electron Spin Resonance, Chemical Modification, Defects 135 (1991) 122
Excitons, Optical Properties, Phase Separation, Sol–Gel Processes 134 (1991) 71
Infra-red Absorption, Raman Spectra, Structure 134 (1991) 77
Ionic Conductivity, Halide Glasses 136 (1991) 219
Ionic Conductivity, Modelling 136 (1991) 60
Ionic Conductivity, Nuclear Magnetic Resonance, Infra-red Absorption 136 (1991) 227
Lasers, Fluorescence Spectra 139 (1992) 151
Light Scattering, Density, Glass Transition 131–133 (1991) 88
Modelling, Refractive Index, Density 139 (1992) 93
Nitridation, Thermodynamics 135 (1991) 139
Non-oxide Glasses, Structure 139 (1992) 268
Nuclear Magnetic Resonance, Relaxation 131–133 (1991) 1001
Nuclear Magnetic Resonance, Relaxation, Structure 136 (1991) 1
Photo-emission, Surface Reactions, Optical Properties 134 (1991) 208
Refractive Index, Infra-red Absorption, Silicates, Germanates 135 (1991) 114
Sol–Gel Processes, Chemical Modification 134 (1991) 32
Sol–Gel Processes, Crystallization 134 (1991) 293
Sol–Gel Processes, Sol–Gel Precursors, Chemical Modification 134 (1991) 23
Sol–Gel Processes, Viscosity, Glass Fibers 134 (1991) 191
Transport Properties – Solids, Nuclear Magnetic Resonance, Structure 135 (1991) 131

Oxyhalides
Molecular Dynamics, Fracture 134 (1991) 179
Oxyhalides 135 (1991) 211

Oxynitride Glasses
Thin Films, Optical Properties, Hydrogen Effects 139 (1992) 146

Percolation
Computer Simulation, Hopping, Mobility, Monte Carlo simulations 137&138 (1991) 415
Conductivity, Electrical Properties, Theory 135 (1991) 219
Electronic Conductivity, Theory 131–133 (1991) 1245
Electronic Conductivity, Theory 134 (1991) 287
Ionic Conductivity, Modelling 131–133 (1991) 213
Mechanical Properties 131–133 (1991) 1018

Phase Separation
Chalcogenides, Pressure Effects, Glass Formation 135 (1991) 255
Differential Thermal Analysis, X-ray Diffraction 140 (1992) 73
Diffusion, Polymers 131–133 (1991) 598
Excitons, Optical Properties, Oxides, Sol–Gel Processes 134 (1991) 71
Light Scattering, Relaxation 131–133 (1991) 275
Metallic Glasses, Crystallization 134 (1991) 296
Oxides, Crystallization 135 (1991) 95
Raman Spectra, Optical Waveguide 140 (1992) 166
Sol–Gel Processes, Silicates, Optical Properties 139 (1992) 1

Phase Transition
Chalcogenides, Crystallization, Liquids, Time-Resolved Spectroscopy 137&138 (1991) 1005
Chalcogenides, Optical Properties, Raman Spectra, Luminescence 137&138 (1991) 959
Glass Formation, X-ray Diffraction, Differential Thermal Analysis 140 (1992) 69
Raman Spectra, Semiconductors, Silicon, Tetrahedral Materials 137&138 (1991) 1083
Reflectivity, Thin Films, Time-Resolved Spectroscopy, Transient Effects 137&138 (1991) 1009
Silica, Pressure Effects 136 (1991) 241

Phonons
Amorphous Solids, Optical Properties, Recombination, Transient Effects 137&138 (1991) 543
Amorphous Solids, Optical Properties, Transport Properties – Solids, Transient Effects 137&138 (1991) 527
Electronic Structure, Silicon Alloys, Silicon Nitride, Theory 137&138 (1991) 891

Phosphates
EXAFS, Glasses Containing Transition Metal Ions, Structure 136 (1991) 198
Glass Ceramics, Porosity, Chemical Modification 139 (1992) 86
Glass Ceramics, Porosity, Chemical Modification 139 (1992) 90
Noise, Fluorides 135 (1991) 79

Photo-deposition
Alloys, Carbon, Injection of Carriers, Photoresponse 137&138 (1991) 1313
Amorphous Solids, Deposition Techniques, Silicon 137&138 (1991) 665

Photo-emission
Amorphous Solids, Plasma Deposition, Electronic Structure 137&138 (1991) 875
Amorphous Solids, Tin Oxide, Interfaces, Hydrogen Effects 137&138 (1991) 1091
Auger Electron Spectroscopy, Alloys, Density of States, Electronic Structure 137&138 (1991) 851
Electronic Structure, Gap States, Hydrogen Effects, Hydrogenation 137&138 (1991) 327
EXAFS, Silicates 136 (1991) 260
Silicon Alloys, Thin Films, Modelling 134 (1991) 218
Superlattices, Silicon, Silicon Nitride 137&138 (1991) 1127
Surface Reactions, Oxides, Optical Properties 134 (1991) 208

Photo Voltage
Amorphous Solids, Mobility, Silicon, Transport Properties – Solids 137&138 (1991) 455
Defects, Experimental Techniques, Hydrogen Effects, Silicon 137&138 (1991) 79
Solar Cells, Diodes, Junctions, Computer Simulation, Amorphous Solids 137&138 (1991) 1205

Photoconductivity
Absorption, Contacts, Gap States, Light Scattering 137&138 (1991) 615
Amorphous Solids, Applications, Silicon 137&138 (1991) 1317
Amorphous Solids, Gap States, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 1169
Amorphous Solids, Metastability, Growth Kinetics 137&138 (1991) 705
Capacitance Methods, Hopping, Thin Films 137&138 (1991) 419
Chalcogenides, Defects, Dynamic Fatigue, Stäbler–Wronski Effect 137&138 (1991) 1017
Chalcogenides, Density of States, Recombination, Transient Effects 137&138 (1991) 951
Chalcogenides, Mobility, Devices, Thermal Properties 137&138 (1991) 947
Computer Simulation, Defects, Gap States, Recombination 137&138 (1991) 351
Computer Simulation, Density of States, Time-of-Flight 137&138 (1991) 359
Computer Simulation, Silicon Alloys, Transient Effects, Trapping 137&138 (1991) 547
Defects, Dynamic Fatigue, Optical Properties, Polymers 137&138 (1991) 915
Diffusion, Grating, Recombination, Stäbler–Wronski Effect 137&138 (1991) 475
Doping, Secondary Ion Mass Spectroscopy, Silicon, Stäbler–Wronski Effect 137&138 (1991) 737
Doping, Transport Properties – Solids, Surface Tension 137&138 (1991) 491
Electron Spin Resonance, Stäbler–Wronski Effect 137&138 (1991) 211
Electronic Conductivity, Injection of Carriers, Interfaces, Silicon Alloys 137&138 (1991) 1279
Gap States, Hopping, Time-of-Flight, Time-Resolved Spectroscopy 137&138 (1991) 443
Gap States, Recombination, Semiconductors 137&138 (1991) 607
Germanium, Hopping, Computer Simulation, Semiconductors 137&138 (1991) 843
Glow Discharge, Growth Kinetics, Solar Cells, Surface Reactions 137&138 (1991) 717
Grating, Optical Properties, Electrical Properties 137&138 (1991) 483
Hopping, Recombination, Quenching 137&138 (1991) 467
Interfaces, Plasma Deposition, Silicon, Thin Film Transistors 137&138 (1991) 677
Kinetics, Photomodulation, Silicon 137&138 (1991) 611
Metastability, Polymers, Photoinduced Effects, Time-of-Flight 137&138 (1991) 271
Optical Properties, Silicon, Tails 137&138 (1991) 343
Recombination, Thermalization 137&138 (1991) 563
Recombination, Trapping, Mobility, Transient Effects 137&138 (1991) 435
Recombination, Tunneling, Transient Effects 137&138 (1991) 603
Semiconductors, Thin Films 137&138 (1991) 817
Solar Cells, Optical Properties, Recombination, Injection of Carriers 137&138 (1991) 1181

Photoinduced Effects
Amorphous Solids, Acoustic Properties, Medium-Range Order, Modelling 137&138 (1991) 967
Amorphous Solids, Chalcogenides, Defects, Fluorescence Spectra 137&138 (1991) 997
Amorphous Solids, Chalcogenides, Diffusion, Ionic Conductivity 137&138 (1991) 1021
Amorphous Solids, Chalcogenides, Etching, Surface Reactions 137&138 (1991) 1035
Amorphous Solids, Chalcogenides, Optical Properties, Structure 137&138 (1991) 977
Amorphous Solids, Chalcogenides, Relaxation, Theory 137&138 (1991) 973
Amorphous Solids, Dangling Bonds, Electron Spin Resonance, Silicon 137&138 (1991) 1
Amorphous Solids, Deposition Techniques, Hydrogenation, Thin Films 137&138 (1991) 685

Photoinduced Effects *(continued)*
Amorphous Solids, Doping, Electrical Properties 137&138 (1991) 279
Amorphous Solids, Recombination, Stäbler–Wronski Effect, Silicon 137&138 (1991) 231
Annealing Effects, Dangling Bonds, Gap States, Time-Resolved Spectroscopy 137&138 (1991) 535
Applications, Chalcogenides, Optical Properties 137&138 (1991) 1333
Chalcogenides, Defects, Optical Properties, Polarization 137&138 (1991) 993
Chalcogenides, Diffusion 137&138 (1991) 1027
Chalcogenides, Electron Spin Resonance, Optical Properties, XPS 137&138 (1991) 985
Chalcogenides, Electronic Conductivity, Thermoelectric Power, Electrical Properties 137&138 (1991) 1039
Chalcogenides, Kinetics, Thin Films 137&138 (1991) 1013
Chalcogenides, Optical Properties 135 (1991) 37
Chalcogenides, Optical Properties 137&138 (1991) 981
Chalcogenides, Transport Properties – Solids 137&138 (1991) 1031
Crystallization, Optical Properties, Silicon 137&138 (1991) 1297
Defects, Equilibrium, Hydrogen Effects, Thermodynamics 137&138 (1991) 157
Defects, Interfaces, Multilayers, Optical Properties 137&138 (1991) 1135
Defects, Metastability, Multilayers, Silicon Alloys, Stäbler–Wronski Effect 137&138 (1991) 287
Defects, Recombination, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 255
Differential Thermal Analysis 131–133 (1991) 520
Electron Diffraction, Infra-red Absorption, Plasma Deposition, Raman Spectra 137&138 (1991) 1001
Hydrogen Effects, Hydrogenation, Stäbler–Wronski Effect, Valence Band 137&138 (1991) 375
Metastability, Photoconductivity, Polymers, Time-of-Flight 137&138 (1991) 271
Silicon, Hydrogen in Glass, Microstructure 139 (1992) 157

Photomodulation
Amorphous Solids, Gap States, Semiconductors 137&138 (1991) 251
Amorphous Solids, Gap States, Silicon Alloys 137&138 (1991) 855
Doping, Electron Spin Resonance, Gap States, Transport Properties – Solids 137&138 (1991) 379
Kinetics, Photoconductivity, Silicon 137&138 (1991) 611

Photoreceptor
Detectors, High Field Effects, Heterojunctions, Tunneling 137&138 (1991) 1283
Electrophotography, Modelling 137&138 (1991) 1329
Time-of-Flight, Trapping, Chalcogenides 137&138 (1991) 943
X-ray Absorption, X-ray Sensor, Radiation Effects 137&138 (1991) 1337

Photoresponse
Alloys, Carbon, Injection of Carriers, Photo-deposition 137&138 (1991) 1313
Amorphous Solids, Density of States, Silicon Alloys 137&138 (1991) 847
Amorphous Solids, Electronic Conductivity, Thin Films, Transient Effects 137&138 (1991) 463
Amorphous Solids, Experimental Techniques, Silicon, Transient Effects 137&138 (1991) 479
Diodes, Devices 137&138 (1991) 1305
Diodes, Electroluminescence, Injection of Carriers, Transport Properties – Devices 137&138 (1991) 1267
Diodes, Image Sensors, Transient Effects, Trapping 137&138 (1991) 1309
Germanium, Electronic Structure, Amorphous Solids, Optical Properties 137&138 (1991) 803
Solar Cells, Silicon, Modelling, Amorphous Solids 137&138 (1991) 1193

Plasma Deposition
Amorphous Solids, Crystallization, Deposition Techniques, Oxides, Silicon, Thin Films, X-ray Diffraction 137&138 (1991) 733
Amorphous Solids, Defects, Glow Discharge, Silicon 137&138 (1991) 795
Amorphous Solids, Deposition Techniques, Germania, Kinetics, Thin Films 137&138 (1991) 779
Amorphous Solids, Electronic Structure, Photo-emission 137&138 (1991) 875
Amorphous Solids, Germanium, Hydrogen Effects, Microwave 137&138 (1991) 749
Amorphous Solids, Silicon Alloys, Surface Reactions, Thin Films 137&138 (1991) 639
Annealing Effects, Microstructure, Structure, Silicon 137&138 (1991) 681
Bonding, Doping, Hydrogen Effects, Silicon Alloys 137&138 (1991) 119
Capacitance Methods, Doping, Devices, Silicon 137&138 (1991) 1059
Diffusion, Deposition Techniques, Germanium, Growth Kinetics 137&138 (1991) 745

Plasma Deposition *(continued)*
Diodes, Electroluminescence, Injection of Carriers, Silicon Alloys 137&138 (1991) 1271
Doping, Electron Microscopy, Electric Properties, Raman Spectra, Silicon Alloys 137&138 (1991) 741
Doping, Glow Discharge, Hydrogenation, Silicon Alloys 137&138 (1991) 701
Electron Diffraction, Infra-red Absorption, Photoinduced Effects, Raman Spectra 137&138 (1991) 1001
Equilibrium, Germanium, Raman Spectra, Silicon 137&138 (1991) 195
Fabrication, Solar Cells 137&138 (1991) 757
Germanium, Growth Kinetics, Silicon, Solar Cells – Tandem 137&138 (1991) 799
Growth Kinetics, Hydrogen Effects, Infra-red Absorption, Silicon 137&138 (1991) 669
Growth Kinetics, Infra-red Absorption, Polymers, Structure 137&138 (1991) 713
Interfaces, Photoconductivity, Silicon, Thin Film Transistors 137&138 (1991) 677
Microstructure, Silicon Alloys, Silicon Nitride, Thin Films 137&138 (1991) 879
Semiconductors, Solar Cells, Stability, Solar Cells – Tandem 137&138 (1991) 1155
Silicon, Short-Range Order, Amorphous Solids 137&138 (1991) 115
Silicon Alloys, Time-Resolved Spectroscopy, Surface Reactions 137&138 (1991) 753

Polarization
Chalcogenides, Defects, Optical Properties, Photoinduced Effects 137&138 (1991) 993

Polymers
Amorphous Solids, Localization, Alloys, Transport Properties – Solids 137&138 (1991) 927
Colloids, Electrical Properties and Relaxation 131–133 (1991) 341
Defects, Dynamic Fatigue, Optical Properties, Photoconductivity 137&138 (1991) 915
Dielectric Properties 131–133 (1991) 457
Dielectric Properties 131–133 (1991) 723
Dielectric Properties 131–133 (1991) 852
Dielectric Properties 131–133 (1991) 1131
Dielectric Properties 131–133 (1991) 1158
Dielectric Properties 131–133 (1991) 1164
Dielectric Properties, Diffusion, Viscosity 131–133 (1991) 930
Dielectric Properties, Electrical Properties and Relaxation 131–133 (1991) 1154
Dielectric Properties, Glass Transition, Crystallization 131–133 (1991) 1149
Dielectric Properties, Light Scattering, Density 131–133 (1991) 144
Dielectric Properties, Modelling 131–133 (1991) 728
Dielectric Properties, Thermal Properties 131–133 (1991) 48
Differential Thermal Analysis, Nuclear Magnetic Resonance, X-ray Diffraction 131–133 (1991) 113
Diffusion 131–133 (1991) 827
Diffusion, Modelling 131–133 (1991) 593
Diffusion, Neutron Diffraction 131–133 (1991) 620
Diffusion, Nuclear Magnetic Resonance 131–133 (1991) 735
Diffusion, Phase Separation 131–133 (1991) 598
Dynamic Fatigue, Small Angle X-ray Scattering 131–133 (1991) 492
Elastic Properties, Viscosity, Modelling 131–133 (1991) 831
Electrical Properties 131–133 (1991) 587
Fluorescence Spectra, Nuclear Magnetic Resonance, Thermal Properties 131–133 (1991) 755
Fracture 131–133 (1991) 395
Glass Formation, Dielectric Properties, Mechanical Properties 131–133 (1991) 1
Glass Formation, Relaxation 131–133 (1991) 362
Glass Transition 131–133 (1991) 169
Glass Transition, Mechanical Properties, Thermodynamics 131–133 (1991) 497
Glass Transition, Modelling, Differential Thermal Analysis 139 (1992) 78
Glass Transition, Relaxation 131–133 (1991) 942
Growth Kinetics, Infra-red Absorption, Plasma Deposition, Structure 137&138 (1991) 713
Hardness, Glass Transition 131–133 (1991) 584
Light Scattering 131–133 (1991) 799
Light Scattering, Dielectric Properties, Mechanical Properties 131–133 (1991) 579
Light Scattering, Diffusion 131–133 (1991) 624
Light Scattering, Diffusion 131–133 (1991) 630
Light Scattering, Liquids 131–133 (1991) 816
Light Scattering, Raman Spectra 131–133 (1991) 104
Light Scattering, Relaxation 131–133 (1991) 139
Light Scattering, Structure 131–133 (1991) 134
Liquids 131–133 (1991) 604
Mechanical Properties 131–133 (1991) 408
Mechanical Properties 131–133 (1991) 891
Mechanical Properties, Glass Transition 131–133 (1991) 898
Mechanical Properties, Glass Transition, Viscosity 131–133 (1991) 570
Mechanical Properties, Optical Properties 131–133 (1991) 781
Mechanical Properties, Relaxation 131–133 (1991) 84
Mechanical Properties, Relaxation 131–133 (1991) 887
Mechanical Properties, Relaxation, Glass Transition 131–133 (1991) 462
Mechanical Properties, Structure 131–133 (1991) 516
Mechanical Properties, Thermal Properties 131–133 (1991) 37

Polymers *(continued)*
Mechanical Properties, Viscosity, Diffusion 131–133 (1991) 505
Metastability, Photoconductivity, Photoinduced Effects, Time-of-Flight 137&138 (1991) 271
Modelling 131–133 (1991) 225
Modelling, Diffusion 131–133 (1991) 654
Modelling, Molecular Dynamics 131–133 (1991) 612
Modelling, Relaxation 131–133 (1991) 715
Molecular Dynamics, Glass Transition 131–133 (1991) 95
Monte Carlo simulations, Diffusion 131–133 (1991) 650
Neutron Diffraction 131–133 (1991) 697
Neutron Diffraction, Diffusion 131–133 (1991) 709
Neutron Diffraction, Glass Transition 131–133 (1991) 53
Neutron Diffraction, Interfaces 131–133 (1991) 703
Nuclear Magnetic Resonance 131–133 (1991) 766
Nuclear Magnetic Resonance 131–133 (1991) 777
Nuclear Magnetic Resonance, Liquids 131–133 (1991) 509
Nuclear Magnetic Resonance, Relaxation 131–133 (1991) 949
Optical Properties, Infra-red Absorption 131–133 (1991) 676
Optical Properties, Viscosity, Liquids 131–133 (1991) 537
Relaxation 131–133 (1991) 544
Relaxation 131–133 (1991) 812
Relaxation, Glass Transition 131–133 (1991) 1140
Structure 131–133 (1991) 906
Theory 131–133 (1991) 894
Ultrasonic Relaxation, Dielectric Properties, Relaxation 131–133 (1991) 58
Ultrasonic Relaxation, Viscosity 131–133 (1991) 808
Viscosity, Elastic Properties 131–133 (1991) 773
Viscosity, Mechanical Properties 131–133 (1991) 793

Porosity
Density of States, Hopping, Silicon Nitride 137&138 (1991) 515
Glass Ceramics, Phosphates, Chemical Modification 139 (1992) 86
Glass Ceramics, Phosphates, Chemical Modification 139 (1992) 90
Glass Transition, Organic–Inorganic Hybrids 131–133 (1991) 221
Molecular Dynamics, Sol–Gel Method 139 (1992) 215
Sol–Gel Processes, Silica, Sintering 134 (1991) 39
Sol–Gel Processes, Silicates, Transport Properties – Gel 139 (1992) 14

Preforms
Fibers 140 (1992) 265
Fibers 140 (1992) 281
Viscosity, Modelling 140 (1992) 255

Pressure Effects
Amorphous Solids, Electrical Properties and Relaxation, Optical Properties, Semiconductors, Silicon Alloys 137&138 (1991) 931
Borates, Density, Reactions 135 (1991) 62
Chalcogenides, Phase Separation, Glass Formation 135 (1991) 255
Dangling Bonds, Electron Spin Resonance, Metastability 137&138 (1991) 275
Dielectric Properties 131–133 (1991) 1145
Modelling, Molecular Dynamics 140 (1992) 350
Phase Transition, Silica 136 (1991) 241
Semiconductors, Thin Films, Infra-red Absorption 135 (1991) 67
Silicates, Optical Properties, Reactions 135 (1991) 55

Quantum Wells
Chalcogenides, Silica, Electron Microscopy, Microstructure 134 (1991) 233

Quenching
Equilibrium, Germanium, Metastability, Relaxation 137&138 (1991) 187
Hopping, Photoconductivity, Recombination 137&138 (1991) 467
Metallic Glasses, Silicates, Theory 136 (1991) 266

Radiation Effects
Amorphous Solids, Structure, Semiconductors, Deposition Techniques 137&138 (1991) 657
Density, Silica 136 (1991) 163
Electron Spin Resonance 140 (1992) 194
X-ray Absorption, X-ray Sensor, Photoreceptor 137&138 (1991) 1337

Raman Spectra
Amorphous Solids, Fractals, Light Scattering, Silicon 137&138 (1991) 103
Chalcogenides, Optical Properties, Phase Transition, Luminescence 137&138 (1991) 959
Chalcohalides, Glass Formation, Infra-red Absorption 136 (1991) 205
Chalcohalides, Infra-red Absorption, Structure 134 (1991) 86
Crystallization, Hydrogen Effects, Infra-red Absorption 137&138 (1991) 91
Crystallization, Hydrogen Effects, Lasers, Microstructure, Silicon 137&138 (1991) 729
Defects, Optical Properties 140 (1992) 307
Defects, Silica, Electron Spin Resonance 136 (1991) 151
Doping, Electron Microscopy, Electric Properties, Silicon Alloys, Plasma Deposition 137&138 (1991) 741

Raman Spectra *(continued)*
Electrical Properties and Relaxation 131–133 (1991) 981
Electron Diffraction, Infra-red Absorption, Photoinduced Effects, Plasma Deposition 137&138 (1991) 1001
Equilibrium, Germanium, Plasma Deposition, Silicon 137&138 (1991) 195
Light Scattering, Polymers 131–133 (1991) 104
Medium-Range Order, Optical Properties, Structure, Silicon 137&138 (1991) 99
Oxides, Infra-red Absorption, Structure 134 (1991) 77
Phase Separation, Optical Waveguide 140 (1992) 166
Semiconductors, Phase Transition, Silicon, Tetrahedral Materials 137&138 (1991) 1083
Structure, Infra-red Absorption 140 (1992) 92
Structure, Molecular Dynamics, X-ray Diffraction 140 (1992) 269
Structure, X-ray Absorption 140 (1992) 98

Rare-earth Ions
Fluorides, Fluorescence Spectra 139 (1992) 271

Reactions
Pressure Effects, Borates, Density 135 (1991) 62
Pressure Effects, Silicates, Optical Properties 135 (1991) 55
Silica, Hydrogen Effects, Diffusion 139 (1992) 35
Sol–Gel Processes, Nuclear Magnetic Resonance 134 (1991) 1
Sol–Gel Processes, Nuclear Magnetic Resonance, Silica 139 (1992) 25
Sol–Gel Processes, Silica 135 (1991) 22
Sol–Gel Processes, Silica, Nuclear Magnetic Resonance 135 (1991) 15

Recombination
Absorption, Defects, Luminescence 137&138 (1991) 591
Amorphous Solids, Dangling Bonds, Stäbler–Wronski Effect, Trapping 137&138 (1991) 243
Amorphous Solids, Electron Spin Resonance, Silicon, Luminescence 137&138 (1991) 551
Amorphous Solids, Luminescence, Kinetics 137&138 (1991) 571
Amorphous Solids, Optical Properties, Phonons, Transient Effects 137&138 (1991) 543
Amorphous Solids, Photoinduced Effects, Stäbler–Wronski Effect, Silicon 137&138 (1991) 231
Chalcogenides, Density of States, Photoconductivity, Transient Effects 137&138 (1991) 951
Computer Simulation, Defects, Gap States, Photoconductivity 137&138 (1991) 351
Defects, Luminescence, Microwave 137&138 (1991) 583
Defects, Photoinduced Effects, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 255
Density of States, Hopping, Monte Carlo simulations, Tunneling 137&138 (1991) 579
Diffusion, Grating, Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 475
Diodes, Electroluminescence, Injection of Carriers 137&138 (1991) 599
Electron Spin Resonance, Nuclear Magnetic Resonance, Stäbler–Wronski Effect, Hydrogen Effects 137&138 (1991) 247
Gap States, Photoconductivity, Semiconductors 137&138 (1991) 607
Hopping, Luminescence, Monte Carlo simulations, Tunneling 137&138 (1991) 587
Hopping, Photoconductivity, Quenching 137&138 (1991) 467
Luminescence, Hopping, Theory, Monte Carlo simulations 137&138 (1991) 567
Luminescence, Silicon 137&138 (1991) 555
Luminescence, Time-Resolved Spectroscopy 137&138 (1991) 539
Photoconductivity, Trapping, Mobility, Transient Effects 137&138 (1991) 435
Photoconductivity, Tunneling, Transient Effects 137&138 (1991) 603
Solar Cells, Photoconductivity, Optical Properties, Injection of Carriers 137&138 (1991) 1181
Thermalization, Photoconductivity 137&138 (1991) 563
Time-Resolved Spectroscopy, Luminescence, Monte Carlo simulations 137&138 (1991) 559

Reflectivity
Amorphous Solids, Computer Simulation, Optical Properties, Secondary Ion Mass Spectroscopy 137&138 (1991) 1095
Thin Films, Time-Resolved Spectroscopy, Phase Transition, Transient Effects 137&138 (1991) 1009

Refractive Index
Amorphous Solids, Optical Properties 137&138 (1991) 619
Hydrogenation, Glass Transition, Density 140 (1992) 52
Infra-red Absorption, Oxides, Silicates, Germanates 135 (1991) 114
Modelling, Oxides, Density 139 (1992) 93
Oxides, Density, Glass Formation 135 (1991) 105
Silica 131–133 (1991) 1206
Thermal Properties, Silica, Optical Properties 135 (1991) 86

Relaxation
Amorphous Solids, Chalcogenides, Photoinduced Effects, Theory 137&138 (1991) 973

Relaxation *(continued)*
Chalcogenides, Glass Transition 140 (1992) 209
Crystallization 131–133 (1991) 1218
Dielectric Properties 131–133 (1991) 217
Dielectric Properties 131–133 (1991) 335
Dielectric Properties 131–133 (1991) 990
Dielectric Properties 131–133 (1991) 1036
Dielectric Properties 131–133 (1991) 1136
Dielectric Properties 131–133 (1991) 1202
Dielectric Properties, Elastic Properties 131–133 (1991) 877
Dielectric Properties, Electrical Properties and Relaxation 131–133 (1991) 187
Dielectric Properties, Nuclear Magnetic Resonance 131–133 (1991) 961
Differential Thermal Analysis, Chalcogenides 131–133 (1991) 479
Electrical Properties and Relaxation 131–133 (1991) 1250
Equilibrium, Germanium, Metastability, Quenching 137&138 (1991) 187
Fluorides, Chalcogenides, Glass Transition 131–133 (1991) 182
Fractals, Diffusion 131–133 (1991) 233
Glass Transition 131–133 (1991) 66
Glass Transition 131–133 (1991) 442
Glass Transition, Chalcogenides 131–133 (1991) 524
Glass Transition, Modelling 131–133 (1991) 204
Glass Transition, Polymers 131–133 (1991) 942
Glass Transition, Polymers 131–133 (1991) 1140
Light Scattering, Phase Separation 131–133 (1991) 275
Light Scattering, Polymers 131–133 (1991) 139
Liquids 131–133 (1991) 161
Mechanical Properties, Glass Transition, Polymers 131–133 (1991) 462
Mechanical Properties, Polymers 131–133 (1991) 887
Metallic Glasses, Magnetic Properties 131–133 (1991) 1235
Modelling 131–133 (1991) 32
Modelling 131–133 (1991) 192
Modelling 131–133 (1991) 210
Modelling 131–133 (1991) 420
Modelling 131–133 (1991) 935
Modelling, Molecular Dynamics 131–133 (1991) 177
Molecular Dynamics 131–133 (1991) 109
Molecular Dynamics 131–133 (1991) 255
Nuclear Magnetic Resonance, Electron Spin Resonance 131–133 (1991) 125
Nuclear Magnetic Resonance, Ionic Conductivity 139 (1992) 257
Nuclear Magnetic Resonance, Oxides 131–133 (1991) 1001
Nuclear Magnetic Resonance, Oxides, Structure 136 (1991) 1
Nuclear Magnetic Resonance, Polymers 131–133 (1991) 949
Optical Properties, Light Scattering 131–133 (1991) 823
Orientational Glasses 131–133 (1991) 269
Polymers 131–133 (1991) 544
Polymers 131–133 (1991) 812
Polymers, Glass Formation 131–133 (1991) 362
Polymers, Mechanical Properties 131–133 (1991) 84
Polymers, Modelling 131–133 (1991) 715
Relaxation 131–133 (1991) 13
Relaxation 131–133 (1991) 282
Relaxation 131–133 (1991) 1174
Specific Heat, Modelling 131–133 (1991) 310
Structure 131–133 (1991) 80
Structure, Boron, Diffusion, Hydrogen Effects 137&138 (1991) 179
Theory, Modelling 131–133 (1991) 1260
Theory, Thermal Properties 131–133 (1991) 248
Theory, Thermodynamics 131–133 (1991) 196
Theory, Viscosity 131–133 (1991) 200
Ultrasonic Relaxation, Dielectric Properties, Polymers 131–133 (1991) 58
Viscosity 131–133 (1991) 883
XPS, Chalcogenides, Thermal Properties 131–133 (1991) 1041

Rigidity Percolation
Theory, Structure 131–133 (1991) 476

Rutherford Backscattering
Interfaces, Kinetics, Surface Reactions, Ellipsometry 137&138 (1991) 1055

Scanning Electron Microscopy
Secondary Electron Emission, Thin Film Transistors, Amorphous Solids, Experimental Techniques 137&138 (1991) 1237

Secondary Electron Emission
Scanning Electron Microscopy, Thin Film Transistors, Amorphous Solids, Experimental Techniques 137&138 (1991) 1237

Secondary Ion Mass Spectroscopy
Amorphous Solids, Computer Simulation, Optical Properties, Reflectivity 137&138 (1991) 1095
Doping, Photoconductivity, Silicon, Stäbler–Wronski Effect 137&138 (1991) 737

Semiconductors
Amorphous Solids, Calorimetry, Silicon Alloys 137&138 (1991) 87
Amorphous Solids, Defects, Hydrogen Effects, Silicon 137&138 (1991) 17
Amorphous Solids, Electrical Properties and Relaxation, Optical Properties, Pressure Effects, Silicon Alloys 137&138 (1991) 931
Amorphous Solids, Gap States, Photomodulation 137&138 (1991) 251

Semiconductors *(continued)*
Amorphous Solids, Metastability, Tetrahedral Materials 137&138 (1991) 709
Amorphous Solids, Structure, Radiation Effects, Deposition Techniques 137&138 (1991) 657
Chalcogenides, Crystallization, Differential Thermal Analysis 139 (1992) 129
Diodes, Liquid Crystal Displays, Light Modulators, Structure, Amorphous Solids 137&138 (1991) 1325
EXAFS, Silicon Alloys, X-ray Diffraction 137&138 (1991) 75
Gap States, Photoconductivity, Recombination 137&138 (1991) 607
Germanium, Hopping, Computer Simulation, Photoconductivity 137&138 (1991) 843
Germanium, Silicon, Stäbler–Wronski Effect, Nuclear Magnetic Resonance 137&138 (1991) 71
Hydrogen Effects, Amorphous Solids, Silicon Alloys 137&138 (1991) 95
Optical Properties, Silicon, Stability, Transport Properties – Solids 137&138 (1991) 171
Photoconductivity, Thin Films 137&138 (1991) 817
Plasma Deposition, Solar Cells, Stability, Solar Cells – Tandem 137&138 (1991) 1155
Raman Spectra, Phase Transition, Silicon, Tetrahedral Materials 137&138 (1991) 1083
Surface Analysis, Deposition Techniques, XPS, Luminescence 135 (1991) 243
Surface Analysis, Stäbler–Wronski Effect, Tails, Molecular Dynamics 137&138 (1991) 141
Theory, Transport Properties – Solids, Electronic Conductivity, Amorphous Solids 137&138 (1991) 423
Thin Films, Crystallization, Infra-red Absorption 134 (1991) 226
Thin Films, Infra-red Absorption, Pressure Effects 135 (1991) 67

Short-Range Order
Alloys, X-ray Diffraction, Glasses Containing Transition Metal Ions 135 (1991) 248
Chalcogenides, Mössbauer Effect, Structure 139 (1992) 231
Silicon, Plasma Deposition, Amorphous Solids 137&138 (1991) 115

Silica
Crystallization, Ion Implantation, Kinetics 134 (1991) 129
Defects, Electron Spin Resonance, Raman Spectra 136 (1991) 151
Defects, Lasers, Electron Spin Resonance 131–133 (1991) 1240
Density of States, Computer Simulation, Thin Films, X-ray Emission 137&138 (1991) 903
Hydrogen Effects, Diffusion, Reactions 139 (1992) 35
Optical Properties, III–V semiconductors, Sol–Gel Processes 135 (1991) 182
Phase Transition, Pressure Effects 136 (1991) 241
Quantum Wells, Chalcogenides, Electron Microscopy, Microstructure 134 (1991) 233
Radiation Effects, Density 136 (1991) 163
Refractive Index 131–133 (1991) 1206
Refractive Index, Thermal Properties, Optical Properties 135 (1991) 86
Sol–Gel Method, Non-linear Optics 135 (1991) 1
Sol–Gel Processes, Density, Infra-red Absorption 135 (1991) 29
Sol–Gel Processes, Fluorescence Spectra, Structure 135 (1991) 8
Sol–Gel Processes, Nuclear Magnetic Resonance 134 (1991) 14
Sol–Gel Processes, Nuclear Magnetic Resonance, Reactions 135 (1991) 15
Sol–Gel Processes, Nuclear Magnetic Resonance, Reactions 139 (1992) 25
Sol–Gel Processes, Porosity, Sintering 134 (1991) 39
Sol–Gel Processes, Reactions 135 (1991) 22
Surface Analysis, Structure, Small Angle Neutron Scattering 139 (1992) 47

Silicates
Dielectric Properties, Electrical Properties and Relaxation 131–133 (1991) 969
Heat Capacity, Modelling, Differential Thermal Analysis 139 (1992) 239
Ionic Conductivity, Structure 131–133 (1991) 955
Nuclear Magnetic Resonance, Infra-red Absorption, Structure 136 (1991) 249
Optical Properties, Infra-red Absorption, Fibers 136 (1991) 137
Optical Properties, Nuclear Magnetic Resonance 135 (1991) 198
Photo-emission, EXAFS 136 (1991) 260
Pressure Effects, Optical Properties, Reactions 135 (1991) 55
Quenching, Metallic Glasses, Theory 136 (1991) 266
Refractive Index, Infra-red Absorption, Oxides, Germanates 135 (1991) 114
Sol–Gel Processes, Phase Separation, Optical Properties 139 (1992) 1
Sol–Gel Processes, Porosity, Transport Properties – Gel 139 (1992) 14

Silicon
Amorphous Solids, Applications, Photoconductivity 137&138 (1991) 1317

Silicon *(continued)*
Amorphous Solids, Crystallization, Deposition Techniques, Oxides, Plasma Deposition, Thin Films, X-ray Diffraction 137&138 (1991) 733
Amorphous Solids, Dangling Bonds, Electron Spin Resonance, Photoinduced Effects 137&138 (1991) 1
Amorphous Solids, Defects, Glow Discharge, Plasma Deposition 137&138 (1991) 795
Amorphous Solids, Defects, Hydrogen Effects, Semiconductors 137&138 (1991) 17
Amorphous Solids, Density of States, Field Effect, Microwave 137&138 (1991) 1241
Amorphous Solids, Density of States, Interfaces 137&138 (1991) 447
Amorphous Solids, Density of States, Surface Properties, Stäbler–Wronski Effect 137&138 (1991) 339
Amorphous Solids, Deposition Techniques 137&138 (1991) 661
Amorphous Solids, Deposition Techniques, Photo-deposition 137&138 (1991) 665
Amorphous Solids, Diffusion, Structure 137&138 (1991) 29
Amorphous Solids, Diodes, Electroluminescence, Injection of Carriers 137&138 (1991) 595
Amorphous Solids, Electrical Properties and Relaxation, Gap States, Transient Effects 137&138 (1991) 319
Amorphous Solids, Electron Spin Resonance, Gap States, Metastability 137&138 (1991) 183
Amorphous Solids, Electron–Lattice Interactions, Luminescence, Multilayers 137&138 (1991) 1123
Amorphous Solids, Ellipsometry, Growth Kinetics, Nucleation 137&138 (1991) 787
Amorphous Solids, Experimental Techniques, Photoresponse, Transient Effects 137&138 (1991) 479
Amorphous Solids, Field Effect, Hydrogenation, Thin Films 137&138 (1991) 1209
Amorphous Solids, Forming, Memory Behaviour, Switching 137&138 (1991) 499
Amorphous Solids, Forming, Memory Behaviour, Switching 137&138 (1991) 1257
Amorphous Solids, Fractals, Light Scattering, Raman Spectra 137&138 (1991) 103
Amorphous Solids, Hydrogen Effects, Glow Discharge, Structure 137&138 (1991) 673
Amorphous Solids, Mobility, Photo Voltage, Transport Properties – Solids 137&138 (1991) 455
Amorphous Solids, Molecular Orbital Calculation, Hydrogen Effects, Theory 137&138 (1991) 295
Amorphous Solids, Photoinduced Effects, Recombination, Stäbler–Wronski Effect 137&138 (1991) 231
Amorphous Solids, Solar Cells, Stability 137&138 (1991) 1161
Annealing Effects, Microstructure, Plasma Deposition, Structure 137&138 (1991) 681
Capacitance Methods, Doping, Devices, Plasma Deposition 137&138 (1991) 1059
Chalcogenides, Detectors, Electrophotography, Multilayers 137&138 (1991) 1151
Chalcogenides, Time-of-Flight, Transport Properties – Solids 137&138 (1991) 401
Contacts, Electron Diffraction, Surface Reactions, Amorphous Solids 137&138 (1991) 1063
Crystallization, Hydrogen Effects, Lasers, Microstructure, Raman Spectra 137&138 (1991) 729
Crystallization, Optical Properties, Photoinduced Effects 137&138 (1991) 1297
Dangling Bonds, Electron Spin Resonance, Impurities, Stäbler–Wronski Effect 137&138 (1991) 391
Defects, Dangling Bonds, Stability, Stäbler–Wronski Effect 137&138 (1991) 215
Defects, Density of States, Equilibrium, Metastability 137&138 (1991) 259
Defects, Experimental Techniques, Hydrogen Effects, Photo Voltage 137&138 (1991) 79
Density of States, Mobility, Time-of-Flight 137&138 (1991) 411
Deposition Techniques, Doping, Fluorides, Thin Films 137&138 (1991) 697
Deposition Techniques, Hydrogen Effects, Stability, Stäbler–Wronski Effect 137&138 (1991) 235
Diodes, Germanium, Solar Cells, Solar Cells – Tandem 137&138 (1991) 813
Doping, Photoconductivity, Secondary Ion Mass Spectroscopy, Stäbler–Wronski Effect 137&138 (1991) 737
Electrical Properties and Relaxation, Optical Properties 135 (1991) 204
Electronic Structure 139 (1992) 74
Ellipsometry, Glow Discharge, Growth Kinetics, Infra-red Absorption 137&138 (1991) 771
Ellipsometry, Glow Discharge, Growth Kinetics, Infra-red Absorption 137&138 (1991) 775
Ellipsometry, Growth Kinetics, Hydrogen Effects, Thin Films 137&138 (1991) 791
Equilibrium, Germanium, Plasma Deposition, Raman Spectra 137&138 (1991) 195
Germanium, Growth Kinetics, Plasma Deposition, Solar Cells – Tandem 137&138 (1991) 799

Silicon *(continued)*
Germanium, Semiconductors, Stäbler–Wronski Effect, Nuclear Magnetic Resonance 137&138 (1991) 71
Growth Kinetics, Hydrogen Effects, Infra-red Absorption, Plasma Deposition 137&138 (1991) 669
Hopping, Mobility, Multilayers 137&138 (1991) 1147
Hydrogen Effects, Hydrogenation, Metastability 137&138 (1991) 11
Hydrogen Effects, Nitrogen, Infra-red Absorption 139 (1992) 248
Hydrogen in Glass, Microstructure, Photoinduced Effects 139 (1992) 157
Interfaces, Photoconductivity, Plasma Deposition, Thin Film Transistors 137&138 (1991) 677
Junctions 134 (1991) 141
Kinetics, Hydrogenation, Stability, Amorphous Solids 137&138 (1991) 45
Kinetics, Photoconductivity, Photomodulation 137&138 (1991) 611
Luminescence, Recombination 137&138 (1991) 555
Luminescence, Tails, Thermalization, Transient Effects 137&138 (1991) 575
Medium-Range Order, Optical Properties, Structure, Raman Spectra 137&138 (1991) 99
Mobility, Solar Cells, Time-of-Flight, Trapping 137&138 (1991) 427
Molecular Dynamics, Kinetics, Amorphous Solids 137&138 (1991) 145
Optical Properties, Photoconductivity, Tails 137&138 (1991) 343
Optical Properties, Semiconductors, Stability, Transport Properties – Solids 137&138 (1991) 171
Plasma Deposition, Short-Range Order, Amorphous Solids 137&138 (1991) 115
Raman Spectra, Semiconductors, Phase Transition, Tetrahedral Materials 137&138 (1991) 1083
Recombination, Amorphous Solids, Electron Spin Resonance, Luminescence 137&138 (1991) 551
Solar Cells, Photoresponse, Modelling, Amorphous Solids 137&138 (1991) 1193
Superlattices, Silicon Nitride, Photoemission 137&138 (1991) 1127

Silicon Alloys
Amorphization, Crystallization, Microstructure, Optical Properties 137&138 (1991) 635
Amorphous Solids, Calorimetry, Semiconductors 137&138 (1991) 87
Amorphous Solids, Density of States, Photoresponse 137&138 (1991) 847
Amorphous Solids, Diffusion, Doping 137&138 (1991) 111
Amorphous Solids, Diffusion, Hydrogen Effects, Germanium 137&138 (1991) 37
Amorphous Solids, Electrical Properties and Relaxation, Optical Properties, Pressure Effects, Semiconductors 137&138 (1991) 931
Amorphous Solids, Electronic Structure 137&138 (1991) 299
Amorphous Solids, Gap States, Photomodulation 137&138 (1991) 855
Amorphous Solids, Hydrogen Effects, Electrical Properties and Relaxation, Electron Diffraction 137&138 (1991) 907
Amorphous Solids, Molecular Dynamics 137&138 (1991) 153
Amorphous Solids, Plasma Deposition, Surface Reactions, Thin Films 137&138 (1991) 639
Bonding, Doping, Hydrogen Effects, Plasma Deposition 137&138 (1991) 119
Bonding, Structure, Optical Properties, EXAFS 137&138 (1991) 899
Computer Simulation, Photoconductivity, Transient Effects, Trapping 137&138 (1991) 547
Dangling Bonds, Electrical Properties and Relaxation, Electron Spin Resonance, Equilibrium 137&138 (1991) 199
Deposition Techniques, Modelling, Thermodynamics, Theory 137&138 (1991) 871
Diodes, Electroluminescence, Injection of Carriers, Plasma Deposition 137&138 (1991) 1271
Doping, Electron Microscopy, Electric Properties, Raman Spectra, Plasma Deposition 137&138 (1991) 741
Doping, Glow Discharge, Hydrogenation, Plasma Deposition 137&138 (1991) 701
Electrical Properties, Tunneling 137&138 (1991) 523
Electroluminescence, Thin Films 137&138 (1991) 1263
Electronic Conductivity, Injection of Carriers, Interfaces, Photoconductivity 137&138 (1991) 1279
Electronic Structure, Phonons, Silicon Nitride, Theory 137&138 (1991) 891
EXAFS, Semiconductors, X-ray Diffraction 137&138 (1991) 75
Germanium, Density of States, Capacitance Methods, Electrical Properties and Relaxation 137&138 (1991) 809
Glow Discharge, Growth Kinetics, Infra-red Absorption, Surface Analysis 137&138 (1991) 765
Glow Discharge, Hydrogen Effects, Thermodynamics 137&138 (1991) 645
Heterojunctions, Mobility Edge 137&138 (1991) 1075

Silicon Alloys *(continued)*
Hydrogen Effects, Amorphous Solids, Semiconductors 137&138 (1991) 95
Hydrogen Effects, Infra-red Absorption, Structure 137&138 (1991) 49
Luminescence, Time-Resolved Spectroscopy 137&138 (1991) 859
Microstructure, Plasma Deposition, Silicon Nitride, Thin Films 137&138 (1991) 879
Modelling, Solar Cells, Stäbler–Wronski Effect, Solar Cells – Tandem 137&138 (1991) 1197
Non-linear Optics, Silicon Nitride, Switching, Glow Discharge 137&138 (1991) 631
Photoinduced Effects. Defects, Metastability, Multilayers, Stäbler–Wronski Effect 137&138 (1991) 287
Plasma Deposition, Time-Resolved Spectroscopy, Surface Reactions 137&138 (1991) 753
Thin Films, Amorphous Solids, Transport Properties – Solids 134 (1991) 133
Thin Films, Photo-emission, Modelling 134 (1991) 218

Silicon Nitride
Amorphous Solids, Absorption, Multilayers, Superlattices 137&138 (1991) 1115
Amorphous Solids, Capacitance Methods, Gap States, Interfaces 137&138 (1991) 1051
Annealing Effects, Devices, Stability 137&138 (1991) 1287
Dangling Bonds, Electron Spin Resonance, Gap States, Metastability 137&138 (1991) 291
Defects, Electron Spin Resonance 137&138 (1991) 887
Defects, Hydrogen Effects, Microstructure, Stability 137&138 (1991) 61
Density of States, Hopping, Porosity 137&138 (1991) 515
Electronic Structure, Phonons, Silicon Alloys, Theory 137&138 (1991) 891
Microstructure, Electronic Structure, Optical Properties, Electrical Properties 137&138 (1991) 883
Microstructure, Plasma Deposition, Silicon Alloys, Thin Films 137&138 (1991) 879
Non-linear Optics, Silicon Alloys, Switching, Glow Discharge 137&138 (1991) 631
Optical Properties, Ellipsometry, Electrical Properties 137&138 (1991) 895
Superlattices, Silicon, Photoemission 137&138 (1991) 1127
Thin Film Transistors, Membranes, Electrochemical Properties 137&138 (1991) 1253

Sintering
Sol–Gel Processes, Porosity, Silica 134 (1991) 39

Small Angle Electron Scattering
Amorphous Solids, Structure, Deposition Techniques 137&138 (1991) 65

Small Angle Neutron Scattering
Silica, Surface Analysis, Structure 139 (1992) 47

Small Angle X-ray Scattering
Dynamic Fatigue, Polymers 131–133 (1991) 492
Nucleation, Theory, Electron Microscopy 136 (1991) 181

Sol–Gel Method
Molecular Dynamics, Porosity 139 (1992) 215
Silica, Non-linear Optics 135 (1991) 1

Sol–Gel Precursors
Coatings, X-ray Absorption, Crystallization 139 (1992) 198
Electronic Conductivity, Composites 136 (1991) 97
Noise, Fibers 134 (1991) 199
Sol–Gel Processes 135 (1991) 259
Sol–Gel Processes 139 (1992) 205
Sol–Gel Processes, Oxides, Chemical Modification 134 (1991) 23
Stress Relaxation, Fractals 139 (1992) 172

Sol–Gel Processes
Aerogels 136 (1991) 111
Catalysis, Oxides, Nuclear Magnetic Resonance 134 (1991) 47
Coatings 134 (1991) 58
Coatings, Fracture, Strength 139 (1992) 185
Dielectric Properties 131–133 (1991) 913
Dielectric Properties, Oxides, Ionic Conductivity 131–133 (1991) 1227
Diffusion, Light Scattering 131–133 (1991) 671
EXAFS, Infra-red Absorption 136 (1991) 103
Excitons, Optical Properties, Phase Separation, Oxides 134 (1991) 71
Fractals 136 (1991) 119
Nuclear Magnetic Resonance, Reactions 134 (1991) 1
Nuclear Magnetic Resonance, Silica 134 (1991) 14
Nuclear Magnetic Resonance, Silica, Reactions 139 (1992) 25
Optical Properties, III–V semiconductors, Silica 135 (1991) 182
Oxides, Chemical Modification 134 (1991) 32
Oxides, Crystallization 134 (1991) 293
Phase Separation, Silicates, Optical Properties 139 (1992) 1
Porosity, Silica, Sintering 134 (1991) 39
Silica, Density, Infra-red Absorption 135 (1991) 29
Silica, Fluorescence Spectra, Structure 135 (1991) 8

Sol–Gel Processes *(continued)*
Silica, Nuclear Magnetic Resonance, Reactions 135 (1991) 15
Silica, Reactions 135 (1991) 22
Silicates, Porosity, Transport Properties – Gel 139 (1992) 14
Sol–Gel Precursors 135 (1991) 259
Sol–Gel Precursors 139 (1992) 205
Sol–Gel Precursors, Oxides, Chemical Modification 134 (1991) 23
Sol–Gel Processes 134 (1991) 183
Sol–Gel Processes 139 (1992) 165
Theory, Transient Effects 131–133 (1991) 921
Viscosity, Glass Fibers, Oxides 134 (1991) 191

Solar Cells
Amorphous Solids, Gap States, Photoconductivity, Stäbler–Wronski Effect 137&138 (1991) 1169
Amorphous Solids, Silicon, Stability 137&138 (1991) 1161
Amorphous Solids, Time-of-Flight, Transport Properties – Devices, Trapping 137&138 (1991) 1173
Amorphous Solids, Time-of-Flight, Transport Properties – Devices, Trapping 137&138 (1991) 1177
Defects, Photoinduced Effects, Recombination, Stäbler–Wronski Effect 137&138 (1991) 255
Diodes, Germanium, Silicon, Solar Cells – Tandem 137&138 (1991) 813
Diodes, Junctions, Photo Voltage, Computer Simulation, Amorphous Solids 137&138 (1991) 1205
Glow Discharge, Growth Kinetics, Photoconductivity, Surface Reactions 137&138 (1991) 717
Mobility, Silicon, Time-of-Flight, Trapping 137&138 (1991) 427
Modelling, Silicon Alloys, Stäbler–Wronski Effect, Solar Cells – Tandem 137&138 (1991) 1197
Optical Properties, Absorption, Light Scattering 137&138 (1991) 1165
Photoconductivity, Optical Properties, Recombination, Injection of Carriers 137&138 (1991) 1181
Plasma Deposition, Fabrication 137&138 (1991) 757
Plasma Deposition, Semiconductors, Stability, Solar Cells – Tandem 137&138 (1991) 1155
Silicon, Photoresponse, Modelling, Amorphous Solids 137&138 (1991) 1193
Stability, Interfaces, Metastability 137&138 (1991) 1189
Stability, Kinetics, Modelling 137&138 (1991) 1185

Solar Cells – Tandem
Diodes, Germanium, Silicon, Solar Cells 137&138 (1991) 813
Germanium, Growth Kinetics, Plasma Deposition, Silicon 137&138 (1991) 799
Modelling, Silicon Alloys, Solar Cells, Stäbler–Wronski Effect 137&138 (1991) 1197
Plasma Deposition, Semiconductors, Solar Cells, Stability 137&138 (1991) 1155

Specific Heat
Relaxation, Modelling 131–133 (1991) 310
Thermal Properties, Differential Thermal Analysis 131–133 (1991) 451

Sputtering
Auger Electron Spectroscopy 136 (1991) 126
Doping, Electronic Conductivity, Nitrogen, Tetrahedral Materials 137&138 (1991) 821
Optical Properties, Density of States, Thin Films 139 (1992) 60
Topology, Growth Kinetics, Monte Carlo simulations 137&138 (1991) 783

Stability
Amorphous Solids, Silicon, Solar Cells 137&138 (1991) 1161
Annealing Effects, Devices, Silicon Nitride 137&138 (1991) 1287
Chemical Modification 140 (1992) 82
Dangling Bonds, Equilibrium, Tails 137&138 (1991) 191
Defects, Dangling Bonds, Silicon, Stäbler–Wronski Effect 137&138 (1991) 215
Defects, Hydrogen Effects, Interfaces, Oxides 137&138 (1991) 1079
Defects, Hydrogen Effects, Microstructure, Silicon Nitride 137&138 (1991) 61
Density of States, Equilibrium, Trapping, Thin Film Transistors 137&138 (1991) 1215
Deposition Techniques, Hydrogen Effects, Silicon, Stäbler–Wronski Effect 137&138 (1991) 235
Kinetics, Hydrogenation, Silicon, Amorphous Solids 137&138 (1991) 45
Optical Properties, Semiconductors, Silicon, Transport Properties – Solids 137&138 (1991) 171
Plasma Deposition, Semiconductors, Solar Cells, Solar Cells – Tandem 137&138 (1991) 1155
Solar Cells, Interfaces, Metastability 137&138 (1991) 1189
Solar Cells, Kinetics, Modelling 137&138 (1991) 1185
Stäbler–Wronski Effect, Annealing Effects, Defects, Lasers 137&138 (1991) 223
Structure, Amorphous Solids, Annealing Effects, Electronic Conductivity 137&138 (1991) 239

Stäbler–Wronski Effect
Amorphization, Computer Simulation, Electric Properties, Optical Properties 137&138 (1991) 135
Amorphous Solids, Absorption, Optical Properties, Thin Films 137&138 (1991) 623
Amorphous Solids, Dangling Bonds, Recombination, Trapping 137&138 (1991) 243
Amorphous Solids, Density of States, Surface Properties, Silicon 137&138 (1991) 339
Amorphous Solids, Gap States, Metastability, Optical Properties 137&138 (1991) 835
Amorphous Solids, Gap States, Photoconductivity, Solar Cells 137&138 (1991) 1169
Amorphous Solids, Photoinduced Effects, Recombination, Silicon 137&138 (1991) 231
Chalcogenides, Defects, Dynamic Fatigue, Photoconductivity 137&138 (1991) 1017
Dangling Bonds, Electron Spin Resonance, Impurities, Silicon 137&138 (1991) 391
Defects, Dangling Bonds, Silicon, Stability 137&138 (1991) 215
Defects, Photoinduced Effects, Recombination, Solar Cells 137&138 (1991) 255
Density of States, Kinetics, Equilibrium 137&138 (1991) 227
Deposition Techniques, Hydrogen Effects, Silicon, Stability 137&138 (1991) 235
Diffusion, Grating, Photoconductivity, Recombination 137&138 (1991) 475
Doping, Photoconductivity, Secondary Ion Mass Spectroscopy, Silicon 137&138 (1991) 737
Electron Spin Resonance, Nuclear Magnetic Resonance, Hydrogen Effects, Recombination 137&138 (1991) 247
Electron Spin Resonance, Photoconductivity 137&138 (1991) 211
Germanium, Semiconductors, Silicon, Nuclear Magnetic Resonance 137&138 (1991) 71
Hydrogen Effects, Hydrogenation, Photoinduced Effects, Valence Band 137&138 (1991) 375
Interfaces, Defects, Mobility 137&138 (1991) 1143
Metastability, Defects, Electronic Conductivity 137&138 (1991) 263
Modelling, Silicon Alloys, Solar Cells, Solar Cells – Tandem 137&138 (1991) 1197
Photoinduced Effects, Defects, Metastability, Multilayers, Silicon Alloys 137&138 (1991) 287
Stability, Annealing Effects, Defects, Lasers 137&138 (1991) 223
Surface Analysis, Tails, Molecular Dynamics, Semiconductors 137&138 (1991) 141
Transport Properties – Solids 137&138 (1991) 267

Strength
Coatings, Fracture, Sol–Gel Processes 139 (1992) 185

Stress Relaxation
Mechanical Properties, Structure, Germanium 137&138 (1991) 83
Sol–Gel Precursors, Fractals 139 (1992) 172

Structure
Amorphous Solids, Chalcogenides, Optical Properties, Photoinduced Effects 137&138 (1991) 977
Amorphous Solids, Diffusion, Defects, Doping 137&138 (1991) 107
Amorphous Solids, Hydrogen Effects, Glow Discharge, Silicon 137&138 (1991) 673
Amorphous Solids, Radiation Effects, Semiconductors, Deposition Techniques 137&138 (1991) 657
Amorphous Solids, Silicon, Diffusion 137&138 (1991) 29
Amorphous Solids, Small Angle Electron Scattering, Deposition Techniques 137&138 (1991) 65
Annealing Effects, Microstructure, Plasma Deposition, Silicon 137&138 (1991) 681
Bonding, Silicon Alloys, Optical Properties, EXAFS 137&138 (1991) 899
Chalcogenides, Density 134 (1991) 94
Chalcogenides, EXAFS, Germanates 139 (1992) 137
Chalcogenides, Glass Formation, EXAFS, X-ray Diffraction 137&138 (1991) 123
Chalcogenides, Mössbauer Effect, Short-Range Order 139 (1992) 231
Chalcogenides, Nuclear Magnetic Resonance, Glass Transition 135 (1991) 171
Chalcohalides, Infra-red Absorption, Raman Spectra 134 (1991) 86
Dielectric Properties 131–133 (1991) 1084
Electrical Properties and Relaxation 134 (1991) 249
Fluorides, Optical Properties 131–133 (1991) 1230
Germanates, Infra-red Absorption 134 (1991) 259
Growth Kinetics, Infra-red Absorption, Polymers, Plasma Deposition 137&138 (1991) 713
Halide Glasses, Differential Thermal Analysis, Electron Spin Resonance 136 (1991) 14
Hydrogen Effects, Infra-red Absorption, Silicon Alloys 137&138 (1991) 49
Infra-red Absorption, Borates 131–133 (1991) 1092
Infra-red Absorption, Raman Spectra 140 (1992) 92
Ionic Conductivity, Silicates 131–133 (1991) 955
Light Scattering, Polymers 131–133 (1991) 134
Liquid Semiconductors, Mechanical Properties 136 (1991) 37
Liquids 131–133 (1991) 643
Magnetic Properties 134 (1991) 100

Structure *(continued)*
Mechanical Properties, Polymers 131–133 (1991) 516
Mechanical Properties, Stress Relaxation, Germanium 137&138 (1991) 83
Medium-Range Order, Optical Properties, Silicon, Raman Spectra 137&138 (1991) 99
Modelling 131–133 (1991) 1213
Modelling 134 (1991) 107
Molecular Dynamics, X-ray Diffraction, Raman Spectra 140 (1992) 269
Non-oxide Glasses, Oxides 139 (1992) 268
Nuclear Magnetic Resonance, Infra-red Absorption, Silicates 136 (1991) 249
Nuclear Magnetic Resonance, Oxides, Relaxation 136 (1991) 1
Oxides, Infra-red Absorption, Raman Spectra 134 (1991) 77
Phosphates, EXAFS, Glasses Containing Transition Metal Ions 136 (1991) 198
Polymers 131–133 (1991) 906
Raman Spectra, X-ray Absorption 140 (1992) 98
Relaxation 131–133 (1991) 80
Relaxation, Boron, Diffusion, Hydrogen Effects 137&138 (1991) 179
Semiconductors, Diodes, Liquid Crystal Displays, Light Modulators, Amorphous Solids 137&138 (1991) 1325
Silica, Surface Analysis, Small Angle Neutron Scattering 139 (1992) 47
Sol–Gel Processes, Silica, Fluorescence Spectra 135 (1991) 8
Stability, Amorphous Solids, Annealing Effects, Electronic Conductivity 137&138 (1991) 239
Theory, Rigidity Percolation 131–133 (1991) 476
Thin Films, Chalcogenides, X-ray Diffraction 136 (1991) 43
Transport Properties – Solids, Nuclear Magnetic Resonance, Oxides 135 (1991) 131
X-ray Diffraction, Modelling 136 (1991) 27
X-ray Diffraction, Molecular Dynamics 140 (1992) 249

Superconductors
Glass Ceramics 134 (1991) 270

Superlattices
Amorphous Solids, Absorption, Multilayers, Silicon Nitride 137&138 (1991) 1115
Amorphous Solids, Multilayers, Optical Properties 137&138 (1991) 1099
Electronic Conductivity, Luminescence, Multilayers, Optical Properties 137&138 (1991) 1119
Silicon, Silicon Nitride, Photoemission 137&138 (1991) 1127

Surface Analysis
Glow Discharge, Growth Kinetics, Infra-red Absorption, Silicon Alloys 137&138 (1991) 765
Semiconductors, Deposition Techniques, XPS, Luminescence 135 (1991) 243
Silica, Structure, Small Angle Neutron Scattering 139 (1992) 47
Stäbler–Wronski Effect, Tails, Molecular Dynamics, Semiconductors 137&138 (1991) 141

Surface Properties
Amorphous Solids, Density of States, Stäbler–Wronski Effect, Silicon 137&138 (1991) 339
Heterojunctions, Injection of Carriers, Interfaces, Switching 137&138 (1991) 1067
Thin Films, Chalcogenides, Electron Microscopy 139 (1992) 222

Surface Reactions
Amorphous Solids, Chalcogenides, Etching, Photoinduced Effects 137&138 (1991) 1035
Amorphous Solids, Plasma Deposition, Silicon Alloys, Thin Films 137&138 (1991) 639
Auger Electron Spectroscopy, Diffusion, Hydrogen Effects 137&138 (1991) 1087
Contacts, Electron Diffraction, Silicon, Amorphous Solids 137&138 (1991) 1063
Glow Discharge, Growth Kinetics, Photoconductivity, Solar Cells 137&138 (1991) 717
Interfaces, Kinetics, Ellipsometry, Rutherford Backscattering 137&138 (1991) 1055
Photo-emission, Oxides, Optical Properties 134 (1991) 208
Plasma Deposition, Silicon Alloys, Time-Resolved Spectroscopy 137&138 (1991) 753

Surface Tension
Doping, Photoconductivity, Transport Properties – Solids 137&138 (1991) 491

Switching
Amorphous Solids, Forming, Memory Behaviour, Silicon 137&138 (1991) 499
Amorphous Solids, Forming, Memory Behaviour, Silicon 137&138 (1991) 1257
Heterojunctions, Injection of Carriers, Interfaces, Surface Properties 137&138 (1991) 1067
Non-linear Optics, Silicon Alloys, Silicon Nitride, Glow Discharge 137&138 (1991) 631

Tails
Dangling Bonds, Equilibrium, Stability 137&138 (1991) 191
Luminescence, Thermalization, Transient Effects, Silicon 137&138 (1991) 575

Tails *(continued)*
Optical Properties, Photoconductivity, Silicon 137&138 (1991) 343
Surface Analysis, Stäbler–Wronski Effect, Molecular Dynamics, Semiconductors 137&138 (1991) 141

Tetrahedral Materials
Amorphous Solids, Carbon, Density of States, Localization 137&138 (1991) 825
Amorphous Solids, Metastability, Semiconductors 137&138 (1991) 709
Defects, Dangling Bonds, Electron Spin Resonance 137&138 (1991) 323
Doping, Electronic Conductivity, Nitrogen, Sputtering 137&138 (1991) 821
Raman Spectra, Semiconductors, Phase Transition, Silicon 137&138 (1991) 1083

Theory
Amorphous Solids, Chalcogenides, Photoinduced Effects, Relaxation 137&138 (1991) 973
Amorphous Solids, Conduction Band, Density of States, Valence Band 137&138 (1991) 307
Amorphous Solids, Silicon, Molecular Orbital Calculation, Hydrogen Effects 137&138 (1991) 295
Conductivity, Electrical Properties, Percolation 135 (1991) 219
Dangling Bonds, Floating Bonds 137&138 (1991) 303
Deposition Techniques, Modelling, Silicon Alloys, Thermodynamics 137&138 (1991) 871
Diffusion, Transport Properties – Solids, Modelling 131–133 (1991) 1022
Electronic Conductivity, Percolation 131–133 (1991) 1245
Electronic Conductivity, Percolation 134 (1991) 287
Electronic Structure, Phonons, Silicon Alloys, Silicon Nitride 137&138 (1991) 891
Germanates 137&138 (1991) 25
Glass Transition, Molecular Dynamics 131–133 (1991) 62
Growth Kinetics, Nucleation, Fluorides 134 (1991) 157
Hopping, Luminescence 137&138 (1991) 503
Liquid Metals, Electron–Lattice Interactions 136 (1991) 173
Luminescence, Hopping, Recombination, Monte Carlo simulations 137&138 (1991) 567
Modelling, Relaxation 131–133 (1991) 1260
Nucleation, Small Angle X-ray Scattering, Electron Microscopy 136 (1991) 181
Polymers 131–133 (1991) 894
Quenching, Metallic Glasses, Silicates 136 (1991) 266
Sol–Gel Processes, Transient Effects 131–133 (1991) 921
Structure, Rigidity Percolation 131–133 (1991) 476
Theory 137&138 (1991) 939
Thermal Properties, Relaxation 131–133 (1991) 248
Thermodynamics, Relaxation 131–133 (1991) 196
Transport Properties – Solids, Electronic Conductivity, Amorphous Solids, Semiconductors 137&138 (1991) 423
Transport Properties – Solids, Microstructure, Electronic Conductivity 137&138 (1991) 507
Viscosity, Relaxation 131–133 (1991) 200

Thermal Properties
Chalcogenides, Mobility, Photoconductivity, Devices 137&138 (1991) 947
Crystallization 140 (1992) 275
Dielectric Properties, Polymers 131–133 (1991) 48
Diffusion, Modelling, Transport Properties – Solids 131–133 (1991) 667
Glass Transition, Thermodynamics 131–133 (1991) 435
Halide Glasses, Crystallization, Glass Transition 140 (1992) 1
Lasers, Non-oxide Glasses 131–133 (1991) 375
Mechanical Properties, Polymers 131–133 (1991) 37
Nuclear Magnetic Resonance, Time-Resolved Spectroscopy 140 (1992) 134
Optical Properties, Fibers, Time-Resolved Spectroscopy 140 (1992) 31
Polymers, Fluorescence Spectra, Nuclear Magnetic Resonance 131–133 (1991) 755
Refractive Index, Silica, Optical Properties 135 (1991) 86
Specific Heat, Differential Thermal Analysis 131–133 (1991) 451
Theory, Relaxation 131–133 (1991) 248
Thermal Properties 131–133 (1991) 1254
Viscosity 140 (1992) 141
XPS, Relaxation, Chalcogenides 131–133 (1991) 1041

Thermalization
Glass Transition, Differential Thermal Analysis 131–133 (1991) 483
Luminescence, Tails, Transient Effects, Silicon 137&138 (1991) 575
Recombination, Photoconductivity 137&138 (1991) 563

Thermodynamics
Alloys, Modelling 139 (1992) 107
Crystallization, Elastic Properties, Thin Films 137&138 (1991) 725
Defects, Equilibrium, Hydrogen Effects, Photoinduced Effects 137&138 (1991) 157
Deposition Techniques, Modelling, Silicon Alloys, Theory 137&138 (1991) 871
Glass Transition, Mechanical Properties, Polymers 131–133 (1991) 497
Glass Transition, Thermal Properties 131–133 (1991) 435

Thermodynamics *(continued)*
Glow Discharge, Hydrogen Effects, Silicon Alloys 137&138 (1991) 645
Mechanical Properties, Glass Transition 131–133 (1991) 836
Metallic Glasses, Glass Transition 135 (1991) 73
Modelling 131–133 (1991) 313
Nitridation, Oxides 135 (1991) 139
Theory, Relaxation 131–133 (1991) 196

Thermoelectric Power
Chalcogenides, Electronic Conductivity, Electrical Properties, Photoinduced Effects 137&138 (1991) 1039
Doping, Electronic Conductivity, Electrical Properties, Transport Properties – Solids 137&138 (1991) 471
Mixed-alkali Effect, Glass Transition, Modelling 131–133 (1991) 1076
Nuclear Magnetic Resonance 131–133 (1991) 1053

Thin Film Transistors
Amorphous Solids, Devices 137&138 (1991) 1249
Amorphous Solids, Equilibrium, Interfaces, Metastability 137&138 (1991) 1221
Amorphous Solids, Field Effect, Liquid Crystal Displays, Interfaces 137&138 (1991) 1245
Annealing Effects, Dangling Bonds, Doping, Equilibrium 137&138 (1991) 163
Density of States, Equilibrium, Stability, Trapping 137&138 (1991) 1215
Density of States, Modelling 137&138 (1991) 1229
Interfaces, Photoconductivity, Plasma Deposition, Silicon 137&138 (1991) 677
Membranes, Silicon Nitride, Electrochemical Properties 137&138 (1991) 1253
Scanning Electron Microscopy, Secondary Electron Emission, Amorphous Solids, Experimental Techniques 137&138 (1991) 1237
Transport Properties – Solids, Devices 137&138 (1991) 1225

Thin Films
Amorphous Solids, Absorption, Optical Properties, Stäbler–Wronski Effect 137&138 (1991) 623
Amorphous Solids, Alloys, Deposition Techniques 137&138 (1991) 689
Amorphous Solids, Crystallization, Deposition Techniques, Oxides, Plasma Deposition, Silicon, X-ray Diffraction 137&138 (1991) 733
Amorphous Solids, Deposition Techniques, Germania, Kinetics, Plasma Deposition 137&138 (1991) 779
Amorphous Solids, Deposition Techniques, Hydrogenation, Photoinduced Effects 137&138 (1991) 685
Amorphous Solids, Electronic Conductivity, Photoresponse, Transient Effects 137&138 (1991) 463
Amorphous Solids, Field Effect, Hydrogenation, Silicon 137&138 (1991) 1209
Amorphous Solids, Plasma Deposition, Silicon Alloys, Surface Reactions 137&138 (1991) 639
Capacitance Methods, Hopping, Photoconductivity 137&138 (1991) 419
Carbon, Amorphous Solids 137&138 (1991) 839
Carbon, Composites, Electronic Structure, Optical Properties 136 (1991) 53
Chalcogenides, Kinetics, Photoinduced Effects 137&138 (1991) 1013
Chalcogenides, X-ray Diffraction, Structure 136 (1991) 43
Crystallization, Thermodynamics, Elastic Properties 137&138 (1991) 725
Density of States, Computer Simulation, Silica, X-ray Emission 137&138 (1991) 903
Deposition Techniques, Doping, Fluorides, Silicon 137&138 (1991) 697
Electrical Properties, Localization, Metal–Insulator Transition 137&138 (1991) 519
Electroluminescence, Silicon Alloys 137&138 (1991) 1263
Ellipsometry, Growth Kinetics, Hydrogen Effects, Silicon 137&138 (1991) 791
Glasses Containing Transition Metal Ions, Nitridation, Optical Properties 135 (1991) 236
Microstructure, Plasma Deposition, Silicon Alloys, Silicon Nitride 137&138 (1991) 879
Optical Properties, Density of States, Sputtering 139 (1992) 60
Optical Properties, Hydrogen Effects, Oxynitride Glasses 139 (1992) 146
Photoconductivity, Semiconductors 137&138 (1991) 817
Reflectivity, Time-Resolved Spectroscopy, Phase Transition, Transient Effects 137&138 (1991) 1009
Semiconductors, Crystallization, Infra-red Absorption 134 (1991) 226
Semiconductors, Infra-red Absorption, Pressure Effects 135 (1991) 67
Silicon Alloys, Amorphous Solids, Transport Properties – Solids 134 (1991) 133
Silicon Alloys, Photo-emission, Modelling 134 (1991) 218
Surface Properties, Chalcogenides, Electron Microscopy 139 (1992) 222

III–V semiconductors
Amorphous Solids, Dangling Bonds,

III–V semiconductors *(continued)*
EXAFS, X-ray Diffraction 137&138 (1991) 131
Optical Properties, Silica, Sol–Gel Processes 135 (1991) 182

Time-of-Flight
Amorphous Solids, Solar Cells, Transport Properties – Devices, Trapping 137&138 (1991) 1173
Amorphous Solids, Solar Cells, Transport Properties – Devices, Trapping 137&138 (1991) 1177
Chalcogenides, Silicon, Transport Properties – Solids 137&138 (1991) 401
Computer Simulation, Density of States, Photoconductivity 137&138 (1991) 359
Computer Simulation, Diffusion 137&138 (1991) 439
Dangling Bonds, Noise, Tunneling 137&138 (1991) 495
Density of States, Mobility, Silicon 137&138 (1991) 411
Gap States, Hopping, Photoconductivity, Time-Resolved Spectroscopy 137&138 (1991) 443
High Field Effects, Hopping, Mobility Edge, Mobility 137&138 (1991) 407
Metastability, Photoconductivity, Polymers, Photoinduced Effects 137&138 (1991) 271
Mobility, Silicon, Solar Cells, Trapping 137&138 (1991) 427
Transient Effects, Transport Properties – Devices, Modelling, Interfaces 137&138 (1991) 451
Transport Properties – Devices, Trapping 137&138 (1991) 431
Transport Properties – Solids, Doping, Electronic Conductivity, Drying 137&138 (1991) 395
Trapping, Photoreceptor, Chalcogenides 137&138 (1991) 943

Time-Resolved Spectroscopy
Annealing Effects, Dangling Bonds, Gap States, Photoinduced Effects 137&138 (1991) 535
Chalcogenides, Crystallization, Liquids, Phase Transition 137&138 (1991) 1005
Gap States, Hopping, Photoconductivity, Time-of-Flight 137&138 (1991) 443
Luminescence, Recombination 137&138 (1991) 539
Luminescence, Silicon Alloys 137&138 (1991) 859
Nuclear Magnetic Resonance, Thermal Properties 140 (1992) 134
Optical Properties, Non-linear Optics, Electron–Lattice Interactions 137&138 (1991) 531
Plasma Deposition, Silicon Alloys, Surface Reactions 137&138 (1991) 753
Recombination, Luminescence, Monte Carlo simulations 137&138 (1991) 559
Reflectivity, Thin Films, Phase Transition, Transient Effects 137&138 (1991) 1009
Thermal Properties, Optical Properties, Fibers 140 (1992) 31

Tin Oxide
Amorphous Solids, Photo-emission, Interfaces, Hydrogen Effects 137&138 (1991) 1091

Topology
Sputtering, Growth Kinetics, Monte Carlo simulations 137&138 (1991) 783

Transient Effects
Amorphous Solids, Computer Simulation, Density of States, Devices 137&138 (1991) 1233
Amorphous Solids, Electrical Properties and Relaxation, Gap States, Silicon 137&138 (1991) 319
Amorphous Solids, Electronic Conductivity, Photoresponse, Thin Films 137&138 (1991) 463
Amorphous Solids, Experimental Techniques, Photoresponse, Silicon 137&138 (1991) 479
Amorphous Solids, Junctions 137&138 (1991) 459
Amorphous Solids, Optical Properties, Phonons, Recombination 137&138 (1991) 543
Amorphous Solids, Optical Properties, Phonons, Transport Properties – Solids 137&138 (1991) 527
Chalcogenides, Density of States, Photoconductivity, Recombination 137&138 (1991) 951
Computer Simulation, Photoconductivity, Silicon Alloys, Trapping 137&138 (1991) 547
Diodes, Image Sensors, Photoresponse, Trapping 137&138 (1991) 1309
Diodes, Injection of Carriers, Light Modulators, Transport Properties – Devices 137&138 (1991) 1301
Luminescence, Tails, Thermalization, Silicon 137&138 (1991) 575
Photoconductivity, Recombination, Trapping, Mobility 137&138 (1991) 435
Photoconductivity, Recombination, Tunneling 137&138 (1991) 603
Reflectivity, Thin Films, Time-Resolved Spectroscopy, Phase Transition 137&138 (1991) 1009
Sol–Gel Processes, Theory 131–133 (1991) 921
Time-of-Flight, Transport Properties – Devices, Modelling, Interfaces 137&138 (1991) 451

Transport Properties – Devices
Amorphous Solids, Solar Cells, Time-of-Flight, Trapping 137&138 (1991) 1173

Transport Properties – Devices *(continued)*
Amorphous Solids, Solar Cells, Time-of-Flight, Trapping 137&138 (1991) 1177
Diodes, Electroluminescence, Injection of Carriers, Photoresponse 137&138 (1991) 1267
Diodes, Injection of Carriers, Light Modulators, Transient Effects 137&138 (1991) 1301
Time-of-Flight, Transient Effects, Modelling, Interfaces 137&138 (1991) 451
Time-of-Flight, Trapping 137&138 (1991) 431

Transport Properties – Gel
Electrical Properties and Relaxation, Fluorescence Spectra 131–133 (1991) 685
Sol–Gel Processes, Silicates, Porosity 139 (1992) 14

Transport Properties – Solids
Amorphous Solids, Defects, Multilayers, Noise 137&138 (1991) 1107
Amorphous Solids, Hopping, Multilayers 137&138 (1991) 1111
Amorphous Solids, Localization, Alloys, Polymers 137&138 (1991) 927
Amorphous Solids, Mobility, Photo Voltage, Silicon 137&138 (1991) 455
Amorphous Solids, Optical Properties, Phonons, Transient Effects 137&138 (1991) 527
Chalcogenides, Halide Glasses, Electric Properties 136 (1991) 81
Chalcogenides, Photoinduced Effects 137&138 (1991) 1031
Chalcogenides, Silicon, Time-of-Flight 137&138 (1991) 401
Diffusion, Modelling, Theory 131–133 (1991) 1022
Diffusion, Modelling, Thermal Properties 131–133 (1991) 667
Doping, Electron Spin Resonance, Gap States, Photomodulation 137&138 (1991) 379
Doping, Electronic Conductivity, Electrical Properties, Thermoelectric Power 137&138 (1991) 471
Doping, Photoconductivity, Surface Tension 137&138 (1991) 491
Microstructure, Electronic Conductivity, Theory 137&138 (1991) 507
Neutron Diffraction 131–133 (1991) 1104
Nuclear Magnetic Resonance, Oxides, Structure 135 (1991) 131
Optical Properties, Semiconductors, Silicon, Stability 137&138 (1991) 171
Silicon Alloys, Thin Films, Amorphous Solids 134 (1991) 133
Stäbler–Wronski Effect 137&138 (1991) 267
Theory, Electronic Conductivity, Amorphous Solids, Semiconductors 137&138 (1991) 423
Thin Film Transistors, Devices 137&138 (1991) 1225
Time-of-Flight, Doping, Electronic Conductivity, Drying 137&138 (1991) 395

Trapping
Amorphous Solids, Dangling Bonds, Recombination, Stäbler–Wronski Effect 137&138 (1991) 243
Amorphous Solids, Solar Cells, Time-of-Flight, Transport Properties – Devices 137&138 (1991) 1173
Amorphous Solids, Solar Cells, Time-of-Flight, Transport Properties – Devices 137&138 (1991) 1177
Computer Simulation, Photoconductivity, Silicon Alloys, Transient Effects 137&138 (1991) 547
Density of States, Equilibrium, Stability, Thin Film Transistors 137&138 (1991) 1215
Diodes, Image Sensors, Photoresponse, Transient Effects 137&138 (1991) 1309
Mobility, Silicon, Solar Cells, Time-of-Flight 137&138 (1991) 427
Photoconductivity, Recombination, Mobility, Transient Effects 137&138 (1991) 435
Time-of-Flight, Photoreceptor, Chalcogenides 137&138 (1991) 943
Time-of-Flight, Transport Properties – Devices 137&138 (1991) 431

Tunneling
Dangling Bonds, Noise, Time-of-Flight 137&138 (1991) 495
Density of States, Hopping, Monte Carlo simulations, Recombination 137&138 (1991) 579
Detectors, High Field Effects, Heterojunctions, Photoreceptor 137&138 (1991) 1283
Electrical Properties, Silicon Alloys 137&138 (1991) 523
Electrical Properties and Relaxation, Modelling 131–133 (1991) 92
Hopping, Luminescence, Monte Carlo simulations, Recombination 137&138 (1991) 587
Photoconductivity, Recombination, Transient Effects 137&138 (1991) 603

Ultrasonic Relaxation
Dielectric Properties, Relaxation, Polymers 131–133 (1991) 58
Light Scattering, Mechanical Properties 131–133 (1991) 870
Polymers, Viscosity 131–133 (1991) 808

Valence Band
Amorphous Solids, Conduction Band, Density of States, Theory 137&138 (1991) 307
Hydrogen Effects, Hydrogenation, Photoinduced Effects, Stäbler–Wronski Effect 137&138 (1991) 375

Viscosity
Dielectric Properties, Diffusion, Polymers 131–133 (1991) 930
Diffusion, Nuclear Magnetic Resonance, Neutron Diffraction 131–133 (1991) 551
Elastic Properties, Polymers 131–133 (1991) 773
Electrical Properties and Relaxation, Density, Fluorides 140 (1992) 285
Glass Transition 140 (1992) 119
Mechanical Properties, Diffusion, Polymers 131–133 (1991) 505
Mechanical Properties, Glass Transition, Polymers 131–133 (1991) 570
Optical Properties, Liquids, Polymers 131–133 (1991) 537
Polymers, Elastic Properties, Modelling 131–133 (1991) 831
Polymers, Mechanical Properties 131–133 (1991) 793
Preforms, Modelling 140 (1992) 255
Relaxation 131–133 (1991) 883
Sol–Gel Processes, Glass Fibers, Oxides 134 (1991) 191
Theory, Relaxation 131–133 (1991) 200
Thermal Properties 140 (1992) 141
Ultrasonic Relaxation, Polymers 131–133 (1991) 808

X-ray Absorption
Coatings, Sol–Gel Precursors, Crystallization 139 (1992) 198
Structure, Raman Spectra 140 (1992) 98
X-ray Sensor, Radiation Effects, Photoreceptor 137&138 (1991) 1337

X-ray Diffraction
Amorphous Solids, Chalcogenides, Optical Properties, XPS 137&138 (1991) 963
Amorphous Solids, Crystallization, Deposition Techniques, Oxides, Plasma Deposition, Silicon, Thin Films 137&138 (1991) 733
Amorphous Solids, III–V semiconductors, Dangling Bonds, EXAFS 137&138 (1991) 131
Chalcogenides, Glass Formation, EXAFS, Structure 137&138 (1991) 123
Crystallization, Metallic Glasses 135 (1991) 265
Differential Thermal Analysis, Nuclear Magnetic Resonance, Polymers 131–133 (1991) 113
EXAFS, Semiconductors, Silicon Alloys 137&138 (1991) 75
Glass Formation, Chemical Durability 140 (1992) 62
Glass Formation, Phase Transition, Differential Thermal Analysis 140 (1992) 69
Phase Separation, Differential Thermal Analysis 140 (1992) 73
Short-Range Order, Alloys, Glasses Containing Transition Metal Ions 135 (1991) 248
Structure, Modelling 136 (1991) 27
Structure, Molecular Dynamics 140 (1992) 249
Structure, Molecular Dynamics, Raman Spectra 140 (1992) 269
Thin Films, Chalcogenides, Structure 136 (1991) 43

X-ray Emission
Density of States, Computer Simulation, Silica, Thin Films 137&138 (1991) 903

X-ray Sensor
Detectors, Image Sensors 137&138 (1991) 1321
X-ray Absorption, Radiation Effects, Photoreceptor 137&138 (1991) 1337

XPS
Amorphous Solids, Chalcogenides, Optical Properties, X-ray Diffraction 137&138 (1991) 963
Carbon, Catalysis, Composites, Ellipsometry 137&138 (1991) 863
Chalcogenides, Electron Spin Resonance, Optical Properties, Photoinduced Effects 137&138 (1991) 985
Relaxation, Chalcogenides, Thermal Properties 131–133 (1991) 1041
Semiconductors, Surface Analysis, Deposition Techniques, Luminescence 135 (1991) 243

High Temperature Structural Silicides

Proceedings of the 1st Workshop, Gaithersburg, MD, USA, 2-6 November, 1991

edited by **A.K. Vasudevan** *and* **J.J. Petrovic**

Reprinted from Materials Science and Engineering, A155, Nos. 1,2

The aim of this volume is two-fold. Firstly, to give a current overview on silicide-based structural materials and identify important and promising future research directions. Secondly, it is intended to serve as a catalyst for the expansion of research and development activities in this new field, promoting rapid technology transfer to private industry.

Elevated temperature structural materials represent a key enabling technology for many aspects of advanced aerospace, automotive, energy and environmental systems. High temperature structural silicides constitute an important new class of such materials. Central aspects for the development of structural silicides are improvements in both high and low temperature mechanical properties, with retention of oxidation resistance. Recent composite and alloying approaches have demonstrated significant success in addressing these issues. The optimum development of structural silicides requires the combined efforts of both ceramists and metallurgists owing to their mixed metallic - covalent - ionic atomic bonding state. The contents of this volume will be of interest to both the metallurgical and ceramics communities.

Abbreviated contents: **Silicide Materials.** A comparative overview of molybdenum disilicide composites *(A.K. Vasudevan, J.J. Petrovic)*. Development of continuous fibre reinforced $MoSi_2$ base composites *(M.J. Maloney, R.J. Hecht)*. Application of ternary phase diagrams to the development of $MoSi_2$ based materials *(W.J. Boettinger et al.)*. Appraisal of other silicides as structural materials *(D.M. Shah et al.)*. Processing and properties of Nb_5Si_3 and tough Nb_5Si_3 / Nb laminates *(J. Kajuch et al.)*. Engineering limitations of $MoSi_2$ coatings *(T.A. Kircher, E.L. Courtright)*. **Processing.** Synthesis of molybdenum disilicide by mechanical alloying *(R.B. Schwarz et al.)*. Fabrication, structure and properties of $MoSi_2$ base composites *(D.E. Alman et al.)*. Synthesis of a $MoSi_2$ SiC composite in situ using a solid state displacement reaction *(C.H. Henager et al.)*. Synthesis of $MoSi_2$ single crystals *(T.A. Lograsso)*. **Relationship Between Processing and Mechanical Properties.** Strengthening of discontinuously reinforced $MoSi_2$ composites at high temperatures *(R.M. Aikin, Jr.)*. Interfacial modification in Nb/$MoSi_2$ composites and its effects on fracture toughness *(L. Xiao, R. Abbaschian)*. Effects of carbon additions on high temperature mechanical properties of molybdenum disilicide *(S.A. Maloy et al.)*. **Oxidation.** Oxidation of $MoSi_2$ and comparison with other silicide materials *(D.A. Berztiss et al.)*. Oxidation of $MoSi_2$ based composites *(J. Cook et al.)*. **Creep.** Tensile creep of silicide composites *(S.M. Wiederhorn et al.)*. Creep of molybdenum disilicide composites *(K. Sadananda et al.)*. **Micromechanics.** Dislocations, twins, grain boundaries and precipitates in $MoSi_2$ *(T.E. Mitchell et al.)*. ZrO_2 and ZrO_2 SiC particle reinforced $MoSi_2$ matrix composites *(J.J. Petrovic et al.)*. Modeling of transformation toughening in brittle materials *(R. LeSar et al.)*. Author index. Subject index.

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Strength and Fracture of Glass and Ceramics

by **J. Mencík**

Glass Science and Technology Volume 12

This book provides a thorough review on the actual trends in basic and applied research on the strength and fracture of glass and ceramics. The book will prove a useful and dynamic tool for research workers, designers and technologists engaged in the development and manufacture of ceramics or glass. It will also be of use to anybody interested in the strength and fracture of brittle materials.

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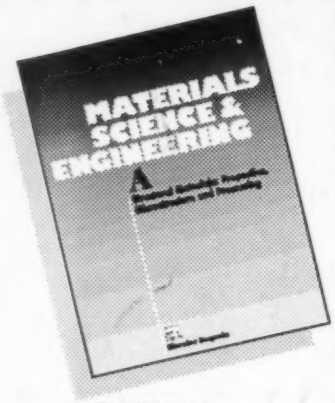

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JOURNAL OF
NON-CRYSTALLINE SOLIDS

Author index to volumes 141–150

Abe, Y., T. Namiki, K. Tuchida, Y. Nagao and T. Misono, Preparation and properties of silicon-containing hybrid gels from vinyltrimethoxysilane 147&148 (1992) 47
Abe, Y., see Hosono, H. 142 (1992) 103
Abe, Y., see Hosono, H. 142 (1992) 287
Abe, Y., see Hosono, H. 143 (1992) 157
Abkowitz, M.A., Light-induced changes in the DOS of chalcogenide glasses studied by xerographic techniques 141 (1992) 188
Abu-Elazm, A.M., see Bahgat, A.A. 150 (1992) 179
Achddou, J.C., see Guizard, C. 147&148 (1992) 681
Achibat, T., A. Boukenter, E. Duval, R. Marchand, E. Gueguen and Y. Laurent, Disorder and ramification in phosphorus oxynitride glasses 144 (1992) 145
Achilov, M.F., P.K. Khabibullaev, Y.V. Pakharukov and O.V. Trunilina, Drawing condition and external effects dependence of superbroadband luminescence in pure silica optical fibers 143 (1992) 246
Adachi, H., see Kowada, Y. 150 (1992) 318
Adriaenssens, G.J., see Nesládek, M. 141 (1992) 155
Aegerter, M.A., see da Silva, A. 145 (1992) 168
Aegerter, M.A., see Macêdo, M.A. 147&148 (1992) 792
Aegerter, M.A., see Atik, M. 147&148 (1992) 813
Afify, N., Calorimetric study on the crystallization of a $Se_{0.8}Te_{0.2}$ chalcogenide glass 142 (1992) 247
Aggarwal, I.D., see Jewell, J.M. 142 (1992) 260
Aivazov, A.A., B.G. Budaguan, A.Y. Sazonov and D.A. Stryahilev, Growth process, structure and thermal stability of a-$Si_{1-x}N_x$:H films 146 (1992) 190
Ajayan, P.M. and S. Iijima, Electron irradiation-induced dynamical fluctuations in amorphous structures 150 (1992) 423
Akasaka, Y., H. Inoue and I. Yasui, Diffraction study of $Li_2O \cdot SiO_2$ glass with computer simulation 150 (1992) 92
Alarcón, J., see Carda, J. 147&148 (1992) 303
Alarcón, J., see Monrós, G. 147&148 (1992) 588
Almeida, R.M., see Matos, M.C. 147&148 (1992) 232
Alvani, C., see Deptula, A. 147&148 (1992) 537
Alviso, C.T., see Pekala, R.W. 145 (1992) 90
Amaranath, G. and S. Buddhudu, Optical properties of rare-earth-doped HMF glasses 143 (1992) 252
Anderson, M.A., see Sheng, G. 147&148 (1992) 548
Ando, E., see Katayama, Y. 147&148 (1992) 437
Aoki, A., S. Ohno and Y. Muramatsu, Preparation of Y–Ba–Cu oxide precursor by the citrate gel process 147&148 (1992) 720
Aoki, K., see El-Eskandarany, M.S. 150 (1992) 472
Appell, J., see Lebon, S. 147&148 (1992) 92
Arai, M., see Sinclair, R.N. 150 (1992) 219
Arai, M., see Hannon, A.C. 150 (1992) 239
Arai, T., S. Naito and I. Yokoyama, The structure and effective pair potential of liquid manganese near the melting point 150 (1992) 314
Ardelean, I., E. Burzo, D. Mîţulescu-Ungur and S. Simon, Magnetic properties of $x Gd_2O_3 \cdot (1-x)$-$[3B_2O_3 \cdot PbO]$ glasses 146 (1992) 256
Arduini-Schuster, M.C., see Lu, X. 145 (1992) 207
Armand, P., A. Ibanez, E. Philippot, Q. Ma and D. Raoux, Local and medium range order in germanium chalcogenide glasses 150 (1992) 371
Arpac, E., see Spanhel, L. 147&148 (1992) 657
Asahi, N., see Haruyama, O. 150 (1992) 483
Ashley, C.S., see Schaefer, D.W. 145 (1992) 105
Ashley, C.S., see Brinker, C.J. 147&148 (1992) 424
Asomoza, M., see López, T. 147&148 (1992) 769
Assink, R.A., see Davis, P.J. 142 (1992) 197
Asuka, M., see Tohge, N. 147&148 (1992) 652
Atik, M., see Piñero, M. 147&148 (1992) 523
Atik, M. and M.A. Aegerter, Corrosion resistant sol–gel ZrO_2 coatings on stainless steel 147&148 (1992) 813
Aubertin, F., see Kondoro, J.W. 143 (1992) 147
Audisio, S., see Lemiti, M. 144 (1992) 261
Avinens, C., see Daviero, S. 146 (1992) 279
Avnir, D., see Braun, S. 147&148 (1992) 739

Avnir, D., see Iosefzon-Kuyavskaya, B. 147&148 (1992) 808
Axelos, M.A.V., see Malier, L. 147&148 (1992) 686

Babonneau, F., see Diré, S. 147&148 (1992) 62
Babonneau, F., L. Bois and J. Livage, Silicon oxycarbides via sol–gel route: characterization of the pyrolysis process 147&148 (1992) 280
Bachra, B., see Wright, A.C. 150 (1992) 69
Bagnall, C.M., see Laurie, J. 147&148 (1992) 320
Bahgat, A.A., I.I. Shaltout and A.M. Abu-Elazm, Structural and thermal properties of some tellurite glasses 150 (1992) 179
Bahtat, M., J. Mugnier, C. Bovier, H. Roux and J. Serughetti, Waveguide Raman spectroscopy of TiO_2:SiO_2 thin films 147&148 (1992) 123
Baiker, A., see Schraml-Marth, M. 143 (1992) 93
Baker, S.H., M.I. Manssor, S.J. Gurman, S.C. Bayliss and E.A. Davis, Structural investigation of the a-$Ga_{1-x}As_x$ system 144 (1992) 63
Bali, H., see Larbot, A. 147&148 (1992) 74
Balland, B., see Lemiti, M. 144 (1992) 261
Barabanov, V.S., N.V. Morozov and P.B. Sergeyev, Ionizing radiation induced absorption in KrF-laser windows 149 (1992) 102
Barboux, P., see Livage, J. 147&148 (1992) 18
Barboux, P., I. Campion, S. Daghish, J. Livage, J.L. Genicon, A. Sulpice and R. Tournier, Synthesis of $YBa_2Cu_3O_{6+x}$ from coprecipitated hydroxides 147&148 (1992) 704
Barrera-Solano, M.C., N. de la Rosa-Fox and L. Esquivias, Ultrastructural aspects of sonogels 147&148 (1992) 194
Bartenev, G.M. and V.A. Lomovskoi, Relaxation time spectra and the peculiarities of the process of boron anhydride glass transition 146 (1992) 225
Bassanese, E., see Furlan, J. 146 (1992) 175
Basu, C., see Mukherjee, S. 144 (1992) 159
Battaglin, G., see Guglielmi, M. 147&148 (1992) 451
Bayliss, S.C., see Singh, A. 142 (1992) 113
Bayliss, S.C., see Baker, S.H. 144 (1992) 63
Beauchamp, G., see Coffer, J.L. 142 (1992) 208
Beck, A., see Wang, P. 145 (1992) 141
Beghi, M., P. Chiurlo, L. Costa, M. Palladino and M.F. Pirini, Structural investigation of the silica–titania gel/glass transition 145 (1992) 175
Beghi, M., see Palladino, M. 147&148 (1992) 335
Beier, W., see Wellbrock, U. 147&148 (1992) 350
Belot, V., R.J.P. Corriu, D. Leclercq, P.H. Mutin and A. Vioux, Organosilicon gels containing silicon–silicon bonds, precursors to novel silicon oxycarbide compositions 144 (1992) 287
Belot, V., R.J.P. Corriu, D. Leclercq, P.H. Mutin and A. Vioux, Thermal reactions occurring during pyrolysis of crosslinked polysiloxane gels, precursors to silicon oxycarbide glasses 147&148 (1992) 52
Belot, V., R. Corriu, D. Leclercq, P.H. Mutin and A. Vioux, Preparation of oxynitride silicon glasses. Nitridation of functional silica xerogels 147&148 (1992) 309
Belougne, P., see Bensimon, Y. 149 (1992) 218
Benassi, P., see Rodrigues, P.A.M. 143 (1992) 274
Benazeth, S., see Ma, Q. 150 (1992) 366
Bensimon, Y., P. Belougne, B. Deroide, J.V. Zanchetta, J.C. Giuntini and F. Henn, ESR study of influence of oxygen on molybdenum sulfides 149 (1992) 218
Benziger, J.B., see Ying, J.Y. 147&148 (1992) 222
Bergerová, J., see Červinka, L. 150 (1992) 132
Bergez, P., see Larbot, A. 147&148 (1992) 85
Bernards, T.N.M., E.W.J.L. Oomen, M.J. van Bommel and A.H. Boonstra, The effect of TEOG on the hydrolysis–condensation mechanism of a two-step sol–gel process of TEOS 142 (1992) 215
Bernards, T.N.M., M.J. van Bommel, E.W.J.L. Oomen and A.H. Boonstra, Hydrolysis–condensation mechanism of a two-step sol–gel process of mixtures of TEOS and TEOG 147&148 (1992) 13
Bernards, T.N.M., see van Bommel, M.J. 147&148 (1992) 80
Bernasconi, A., T. Sleator, D. Posselt, J.K. Kjems and H.R. Ott, Low-temperature specific heat and thermal conductivity of silica aerogels 145 (1992) 202
Bershtein, V.A., see Kolobov, A.V. 150 (1992) 116
Bertin, V., see Gómez, R. 147&148 (1992) 748
Betzholz, S., see Mennig, M. 147&148 (1992) 326
Bhatia, K.L., see Malik, S.K. 142 (1992) 55
Biay, I., see Dessalces, G. 147&148 (1992) 141
Blair, J.A., J.A. Duffy and J.L. Wardell, A refractivity study of metal carboxylate glasses 146 (1992) 159
Blanchetière, C., see Zhang, X.H. 146 (1992) 154
Blanco, E., M. Ramírez-del-Solar, N. de la Rosa-Fox and A.F. Craievich, SAXS study of growth kinet-

ics of fractal aggregates in TEOS–water–alcohol solutions with formamide 147&148 (1992) 238
Blanco, E., N. de la Rosa-Fox, L. Esquivias and A.F. Craievich, Processing of silica xerogels using sonocatalysis and an additive 147&148 (1992) 296
Bockris, J.O.M., see He, M.Z. 142 (1992) 108
Boden, P., see Gaskell, P.H. 150 (1992) 80
Boganov, A.G., see Trukhin, A.N. 149 (1992) 96
Boilot, J.-P., see Canva, M. 147&148 (1992) 627
Boilot, J.P., see Malier, L. 147&148 (1992) 686
Bois, L., see Babonneau, F. 147&148 (1992) 280
Bolden, E.A., see Shelby, J.E. 142 (1992) 269
Boldrick, M.S., E. Yang and C.N.J. Wagner, The structure of amorphous and nanocrystalline W–Fe alloys prepared by high-energy ball milling 150 (1992) 478
Bommersbach, W.M., see Teowee, G. 147&148 (1992) 799
Boonstra, A.H., see Bernards, T.N.M. 142 (1992) 215
Boonstra, A.H., see Bernards, T.N.M. 147&148 (1992) 13
Boonstra, A.H., see van Bommel, M.J. 147&148 (1992) 80
Borello, A., see Deptula, A. 147&148 (1992) 537
Bosch, P., see Gómez, R. 147&148 (1992) 748
Bosch, P., see López, T. 147&148 (1992) 773
Boscolo-Boscoletto, A., see Guglielmi, M. 147&148 (1992) 451
Boshier, M.G., see Schwarz, W. 145 (1992) 244
Bouaziz, J., D. Bourret, A. Sivade and C. Grill, Phase separation during isothermal sintering of $(1-x)SiO_2$–x-Ln_2O_3 aerogels 145 (1992) 71
Bouaziz, J., see Sivade, A. 147&148 (1992) 167
Bouaziz, J., see Sempéré, R. 147&148 (1992) 499
Boudard, M., see Janot, C. 150 (1992) 322
Boukenter, A., see Achibat, T. 144 (1992) 145
Boukenter, A., see Dahmouche, K. 147&148 (1992) 251
Boulton, J.M., see Uhlmann, D.R. 147&148 (1992) 409
Boulton, J.M., see Teowee, G. 147&148 (1992) 799
Bourret, D., see Soufyani, M. 145 (1992) 60
Bourret, D., see Bouaziz, J. 145 (1992) 71
Bourret, D., see Sivade, A. 147&148 (1992) 167
Bourret, D., see Marillet, J. 147&148 (1992) 266
Bourret, D., see Sempéré, R. 147&148 (1992) 499
Bovier, C., see Bahtat, M. 147&148 (1992) 123
Bovier, C., see Dahmouche, K. 147&148 (1992) 251
Bradt, R.C., see Li, H. 146 (1992) 197
Brandt, M.S., see Stutzmann, M. 141 (1992) 97
Braun, S., S. Shtelzer, S. Rappoport, D. Avnir and M. Ottolenghi, Biocatalysis by sol–gel entrapped enzymes 147&148 (1992) 739
Bray, P.J., see Mao, D. 144 (1992) 217
Breitscheidel, B., see Petrullat, J. 147&148 (1992) 594
Brenna, U., V.M. Sglavo, G.D. Sorarù and G. Carturan, Viscosity behaviour of SiO_2–ZrO_2 gelling solutions: effect of acetic anhydride addition 147&148 (1992) 695
Brinker, C.J., see Davis, P.J. 142 (1992) 189
Brinker, C.J., see Davis, P.J. 142 (1992) 197
Brinker, C.J., see Deshpande, R. 144 (1992) 32
Brinker, C.J., A.J. Hurd, P.R. Schunk, G.C. Frye and C.S. Ashley, Review of sol–gel thin film formation 147&148 (1992) 424
Brow, R.K., see Sato, R.K. 143 (1992) 257
Brown, S.D., see Wallenberger, F.T. 144 (1992) 107
Brun, A., see Canva, M. 147&148 (1992) 627
Brun, A., see Canva, M. 147&148 (1992) 636
Bruneton, E., see Colomban, P. 147&148 (1992) 201
Brunier, T.M., see Wright, A.C. 150 (1992) 69
Brunier, T.M., see Sinclair, R.N. 150 (1992) 219
Buchenau, U., M. Monkenbusch, G. Reichenauer and B. Frick, Inelastic neutron scattering from virgin and densified aerogels 145 (1992) 121
Buckley, A.M. and M. Greenblatt, A comparison of the microstructural properties of silica aerogels and xerogels 143 (1992) 1
Buckley, A.M. and M. Greenblatt, The preparation and characterisation of silica aerogels and xerogels doped with transition metal species 146 (1992) 97
Buckley, A.M., see Szu, S. 146 (1992) 129
Budaguan, B.G., see Aivazov, A.A. 146 (1992) 190
Buddhudu, S., see Amaranath, G. 143 (1992) 252
Buffa, F., A. Corrias, G. Licheri, G. Navarra and D. Raoux, Short range structure of mechanically alloyed amorphous Ni_2Zr investigated by anomalous X-ray scattering 150 (1992) 386
Burggraaf, A.J., see Kumar, K.-N.P. 147&148 (1992) 375
Burlitch, J.M., see Yeager, K.E. 149 (1992) 179
Burneau, A., see Humbert, B. 143 (1992) 75
Burzo, E., see Ardelean, I. 146 (1992) 256
Bustarret, E., see Thomsen, C. 141 (1992) 265
Büttner, D., see Lu, X. 145 (1992) 207

Cabane, B., see Kallala, M. 147&148 (1992) 189
Cabral, J.M.P., see Ferreira da Silva, M.G. 147&148 (1992) 146
Calvino, J.J., see Cauqui, M.A. 147&148 (1992) 758
Calzada, M.L., see Phillips, N.J. 147&148 (1992) 285
Campbell, S.J., see Kondoro, J.W. 143 (1992) 147
Campion, I., see Barboux, P. 147&148 (1992) 704
Campos, A., see Porcar, I. 147&148 (1992) 170
Canva, M., P. Georges, G. Le Saux, A. Brun, F. Chaput and J.-P. Boilot, Optically active doped xerogel 147&148 (1992) 627

Canva, M., P. Georges, A. Brun, D. Larrue and J. Zarzycki, Impregnated SiO_2 gels used as dye laser matrix hosts 147&148 (1992) 636

Carda, J., S. Rodriguez, G. Monrós, M.A. Tena, P. Escribano and J. Alarcón, Preparation and characterization of gels with garnet structure: $A_3B_2C_3O_{12}$, using 'non-classical' solvents 147&148 (1992) 303

Carda, J., see Monrós, G. 147&148 (1992) 588

Cardona, M., C.H. Grein, H.D. Fuchs and S. Zollner, Isotope effects on the electronic excitations and phonons in semiconductors 141 (1992) 257

Cargill III, G.S. and M. Matsuura, EXAFS studies of arsenic in amorphous silicon 150 (1992) 347

Carini, J.P., see Menon, N. 141 (1992) 61

Carturan, G., see Diré, S. 147&148 (1992) 62

Carturan, G., see Brenna, U. 147&148 (1992) 695

Cauqui, M.A. and J.M. Rodríguez-Izquierdo, Application of the sol–gel methods to catalyst preparation 147&148 (1992) 724

Cauqui, M.A., J.J. Calvino, G. Cifredo, L. Esquivias and J.M. Rodríguez-Izquierdo, Preparation of rhodium catalysts dispersed on TiO_2–SiO_2 aerogels 147&148 (1992) 758

Červinka, L. and J. Bergerová, A comparison of the medium-range order in glassy GeS_2 and Sb_2S_3 150 (1992) 132

Červinka, L., Medium-range order in polymers: non-crystalline ordering of flexible side chains in rigid rod polyesters 150 (1992) 136

Červinka, L., F. Rocca, P. Fornasini and G. Dalba, The structure of Ag- and Li-borate glasses of the composition $(Ag_2O \cdot 2B_2O_3)_{1-x}$-$(AgI)_x$ and $(Li_2O \cdot 2B_2O_3)$ 150 (1992) 140

Chang, S.Y. and T.A. Ring, Map of gel times for three phase region tetraethoxysilane, ethanol and water 147&148 (1992) 56

Chaput, F., see Papiernik, R. 147&148 (1992) 36

Chaput, F., see Canva, M. 147&148 (1992) 627

Chaput, F., see Malier, L. 147&148 (1992) 686

Charpin, J., see Larbot, A. 147&148 (1992) 85

Chaumont, D., A. Craievich and J. Zarzycki, Effect of ultrasound on the formation of ZrO_2 sols and wet gels 147&148 (1992) 41

Chaumont, D., A. Craievich and J. Zarzycki, A SAXS study of the formation of ZrO_2 sols and gels 147&148 (1992) 127

Chemseddine, A., Sol–gel processing of an entirely new family of mixed valence glasses 147&148 (1992) 313

Chen, H.S., see Okumura, H. 150 (1992) 401

Chen, J.-Q., see Yaoita, K. 150 (1992) 25

Chen, J.-Q., see Imai, M. 150 (1992) 49

Chen, M., W.E. Lee and P.F. James, Synthesis of monoclinic celsian glass-ceramic from alkoxides 147&148 (1992) 532

Chen, S.-y., see Meng, C. 144 (1992) 308

Chi, D.-Z., see Fritzsche, H. 141 (1992) 123

Chiang, A.S.T., see Hsieh, C.-W. 144 (1992) 53

Chieux, P., see Gaskell, P.H. 150 (1992) 80

Chieux, P., see Gaskell, P.H. 150 (1992) 126

Chiurlo, P., see Beghi, M. 145 (1992) 175

Chiurlo, P., see Palladino, M. 147&148 (1992) 335

Chmel, A., G.M. Eranosyan and A.A. Kharshak, Vibrational spectroscopic study of Ti-substituted SiO_2 146 (1992) 213

Chopra, N., A. Mansingh and P. Mathur, Electron paramagnetic resonance and microhardness of binary vanadium tellurite glasses 146 (1992) 261

Chougrani, A., J.L. Sauvajol, M. Foret, R. Vacher and J. Pelous, Correlation between low-frequency Raman spectra and the structure of aerogels 145 (1992) 146

Chu, L., see Sheng, G. 147&148 (1992) 548

Chui, Z.J., L. Wang, K.Y. Wang, L. Sun, G.W. Qiao and J.T. Wang, The surface structure and catalytic properties of partially crystallized Fe–Si–B alloys 150 (1992) 440

Chung, Y.J., see Mackenzie, J.D. 147&148 (1992) 271

Cifredo, G., see Cauqui, M.A. 147&148 (1992) 758

Clasen, R., see Hornfeck, M. 145 (1992) 154

Cleri, F., see Rosato, V. 144 (1992) 187

Cody, G.D., Urbach edge of crystalline and amorphous silicon: a personal review 141 (1992) 3

Coffer, J.L., G. Beauchamp and T.W. Zerda, Porous silica glasses doped with quantum-confined cadmium selenide 142 (1992) 208

Cogliati, G., see Palladino, M. 147&148 (1992) 335

Cogordan, J.A., see Sansores, L.E. 143 (1992) 232

Cohen, J.D., T. Unold, A.V. Gelatos and C.M. Fortmann, Deep defect structure and carrier dynamics in amorphous silicon and silicon–germanium alloys determined by transient photocapacitance methods 141 (1992) 142

Colomban, P., D.J. Jones, D. Grandjean and A.-M. Flank, EXAFS and XANES study of (Si, Ge) mullite

gels and glasses prepared by slow hydrolysis of alkoxides 147&148 (1992) 135
Colomban, P. and E. Bruneton, Influence of hydrolysis conditions on crystallization, phase transitions and sintering of zirconia gels prepared by alkoxide hydrolysis 147&148 (1992) 201
Colomban, P. and V. Vendange, Sintering of alumina and mullites prepared by slow hydrolysis of alkoxides: the role of the protonic species and pore topology 147&148 (1992) 245
Colombo, P., see Guglielmi, M. 147&148 (1992) 451
Colombo, P., see Guglielmi, M. 147&148 (1992) 474
Colombo, P., see Guglielmi, M. 147&148 (1992) 641
Conradt, R., P. Pimkhaokham and U. Leela-Adisorn, Nano-structured silica from rice husk 145 (1992) 75
Cooke, R.G., see Laurie, J. 147&148 (1992) 320
Corrias, A., see Buffa, F. 150 (1992) 386
Corrias, A., G. Ennas, G. Marongiu, A. Musinu and G. Paschina, Structural evolution in mechanical alloying of Co and B powders 150 (1992) 487
Corriu, R., see Belot, V. 147&148 (1992) 309
Corriu, R.J.P., see Belot, V. 144 (1992) 287
Corriu, R.J.P., D. Leclercq, P. Lefèvre, P.H. Mutin and A. Vioux, Preparation of monolithic gels from silicon halides by a non-hydrolytic sol–gel process 146 (1992) 301
Corriu, R.J.P., see Belot, V. 147&148 (1992) 52
Costa, L., see Beghi, M. 145 (1992) 175
Costa, L., see Palladino, M. 147&148 (1992) 335
Cot, L., see Larbot, A. 147&148 (1992) 74
Cot, L., see Larbot, A. 147&148 (1992) 85
Cot, L., see Guizard, C. 147&148 (1992) 681
Craievich, A., see Chaumont, D. 147&148 (1992) 41
Craievich, A., see Chaumont, D. 147&148 (1992) 127
Craievich, A.F., see Vollet, D.R. 142 (1992) 181
Craievich, A.F., see Ramírez-del-Solar, M. 147&148 (1992) 206
Craievich, A.F., see Blanco, E. 147&148 (1992) 238
Craievich, A.F., see Blanco, E. 147&148 (1992) 296
Crichton, S.N. and S.M. Rekhson, Measuring stress relaxation in a compression relaxometer 142 (1992) 133

Daghish, S., see Barboux, P. 147&148 (1992) 704
Dahmouche, K., A. Boukenter, C. Bovier, J. Dumas, E. Duval and J. Serughetti, Raman study of gel–glass transformation in base-catalyzed silica 147&148 (1992) 251
Dai, Y., T. Kawaguchi, K. Suzuki, S. Suzuki and K. Yamamoto, Surface modification of fluorozirconate glass by low energy nitrogen ion implantation 142 (1992) 159
Dalba, G., see Červinka, L. 150 (1992) 140
Dall'Antonia, L.H., see Macêdo, M.A. 147&148 (1992) 792
Damrau, U., H.C. Marsmann, O. Spormann and P. Wang, ^{29}Si MAS-NMR investigations of silica aerogels 145 (1992) 164
Danchevskaya, M.N., Y.D. Ivakin, O.G. Ovchinnikova and V.N. Smirnov, Spectroscopic features of intrinsic defects in silica glasses fused from different raw materials 149 (1992) 46
da Silva, A., P. Donoso and M.A. Aegerter, Properties of water adsorbed in porous silica aerogels 145 (1992) 168
Dauger, A., see Vesteghem, H. 147&148 (1992) 503
Dauger, A., see Guinebretière, R. 147&148 (1992) 542
Daviero, S., C. Avinens, A. Ibanez, J.C. Giuntini and E. Philippot, Dielectric properties of amorphous aluminium phosphate thin films 146 (1992) 279
Davis, E.A., see Singh, A. 142 (1992) 113
Davis, E.A., see Baker, S.H. 144 (1992) 63
Davis, P.J., C.J. Brinker and D.M. Smith, Pore structure evolution in silica gel during aging/drying. I. Temporal and thermal aging 142 (1992) 189
Davis, P.J., C.J. Brinker, D.M. Smith and R.A. Assink, Pore structure evolution in silica gel during aging/drying. II. Effect of pore fluids 142 (1992) 197
Davolos, M.R., see Ribeiro, S.J.L. 147&148 (1992) 162
de Boissieu, M., see Janot, C. 150 (1992) 322
Debsikdar, J.C., Gel to glass conversion and crystallization of alkoxy-derived barium aluminosilicate gel 144 (1992) 269
Deguchi, K., see Hosono, H. 142 (1992) 103
Dejus, R.J., S. Susman, K.J. Volin, D.G. Montague and D.L. Price, Structure of vitreous Ag–Ge–Se 143 (1992) 162
de la Rosa-Fox, N., see Barrera-Solano, M.C. 147&148 (1992) 194
de la Rosa-Fox, N., see Blanco, E. 147&148 (1992) 238
de la Rosa-Fox, N., see Blanco, E. 147&148 (1992) 296
den Hartog, H.W., see Verhoef, A.H. 146 (1992) 267
De Polo, A., see Guglielmi, M. 147&148 (1992) 451
Deptuła, A., W. Łada, T. Olczak, A. Borello, C. Alvani and A. di Bartolomeo, Preparation of spherical powders of hydroxyapatite by sol–gel process 147&148 (1992) 537
Deroide, B., see Bensimon, Y. 149 (1992) 218
Deshpande, R., D.-W. Hua, D.M. Smith and C.J. Brinker, Pore structure evolution in silica gel

during aging/drying. III. Effects of surface tension 144 (1992) 32
Desnica, U.V., see Gracin, D. 149 (1992) 257
Dessalces, G., I. Biay, F. Kolenda, J.F. Quinson and J.P. Reymond, Study of porous texture of silica and silica–alumina hydrogels using experimental design theory 147&148 (1992) 141
Devlen, R.I. and E.A. Schiff, Optically detected photocarrier transport in amorphous silicon: a review 141 (1992) 106
Devreux, F., see Malier, L. 147&148 (1992) 686
Dianov, E.M., V.O. Sokolov and V.B. Sulimov, Semiempirical calculations of point defects in silica. Oxygen vacancy and twofold coordinated silicon atom 149 (1992) 5
di Bartolomeo, A., see Deptuła, A. 147&148 (1992) 537
Di Giampaolo Conde, A.R., M. Puerta, H. Ruiz and J.L. Olivares, Thick aluminosilicate coatings on carbon steel via sol–gel 147&148 (1992) 467
Ding, B.Z., see Tong, H.Y. 150 (1992) 444
Ding, Z., see Weng, W. 147&148 (1992) 102
Diré, S., F. Babonneau, G. Carturan and J. Livage, Synthesis and characterization of siloxane–titania materials 147&148 (1992) 62
Dixon, P.K., see Menon, N. 141 (1992) 61
Domínguez, A., see Mayagoitia, V. 147&148 (1992) 183
Dong, C., see Janot, C. 150 (1992) 322
Donoso, P., see da Silva, A. 145 (1992) 168
Douy, A., Synthesis of cordierite powder by spray-drying 147&148 (1992) 554
Doweidar, H., see El-Damrawi, G. 146 (1992) 137
Doyama, M., M. Matsui, T. Uchida, H. Matsuoka and T. Hirokawa, Structural fluctuations in argon and gold microclusters 150 (1992) 429
Dubois, J.M., see Janot, C. 150 (1992) 322
Duboudin, F., see Pierre, A. 147&148 (1992) 569
Duffy, J.A. and M.D. Ingram, Comments on the application of optical basicity to glass 144 (1992) 76
Duffy, J.A., see Blair, J.A. 146 (1992) 159
Dumas, J., see Dahmouche, K. 147&148 (1992) 251
Dupuy, J.C., see Lemiti, M. 144 (1992) 261
Dupuy-Philon, J., J.F. Jal and B. Prevel, Dynamical studies of an aqueous electrolyte in the supercooled liquid and glassy states 150 (1992) 275
Dupuy-Philon, J., see Fornazero, J. 150 (1992) 413
Durand, M., see Janot, C. 150 (1992) 322
Dürrwächter, M., see Ott, K. 142 (1992) 278
Duval, E., see Achibat, T. 144 (1992) 145
Duval, E., see Dahmouche, K. 147&148 (1992) 251
Ebert, V., see Schwarz, W. 145 (1992) 244
Eccardt, P.-C., see Gerlach, R. 145 (1992) 227
Echeverría, L.M., Enstatite ceramics: a multicomponent system via sol–gel 147&148 (1992) 559
Edwards, A.M., see Nasu, T. 150 (1992) 491
Egelstaff, P.A., see Suck, J.-B. 150 (1992) 245
Egger, C., see Petrullat, J. 147&148 (1992) 594
Ehrburger-Dolle, F., M. Holz, C. Mauzac, J. Lahaye and G.M. Pajonk, Characterization of the porous texture of aerogel, precipitated and pyrogenic silicas 145 (1992) 185
Ehrentreich, F., see Nofz, M. 143 (1992) 191
Ehrlich, A.C., see Gillespie, D.J. 144 (1992) 231
El-Damrawi, G., W. Müller-Warmuth, H. Doweidar and I.A. Gohar, Structure and heat treatment effects of sodium borosilicate glasses as studied by ^{29}Si and ^{11}B NMR 146 (1992) 137
El-Eskandarany, M.S., K. Aoki and K. Suzuki, Thermodynamics and morphology of the amorphization reaction during the rod-milling of Al–50 at.% Ta alloy powder 150 (1992) 472
El Hachadi, A., see Fornazero, J. 150 (1992) 413
Elliott, S.R., see Williams, R.D. 146 (1992) 43
Elliott, S.R., Chemical ordering of interstitial voids: the origin of the first sharp diffraction peak for covalent glasses 150 (1992) 112
Elliott, S.R., see Kolobov, A.V. 150 (1992) 116
Emmerling, A. and J. Fricke, Small angle scattering and the structure of aerogels 145 (1992) 113
Emmerling, A., see Wang, P. 145 (1992) 141
Endo, H., see Tamura, K. 150 (1992) 351
Englisch, W., see Leclerc, N. 149 (1992) 115
Ennas, G., M.P. Medda, A. Musinu, G. Piccaluga and G. Pinna, Diffraction techniques and structural models for amorphous materials 150 (1992) 65
Ennas, G., see Corrias, A. 150 (1992) 487
Ennis, G., see McDonagh, C. 147&148 (1992) 97
Epelbaum, M., see Zotov, N. 142 (1992) 234
Eranosyan, G.M., see Chmel, A. 146 (1992) 213
Ericson, J.E., see Rauch, F. 144 (1992) 224
Escribano, P., see Carda, J. 147&148 (1992) 303
Escribano, P., see Monrós, G. 147&148 (1992) 588
Espínola, A., see Nóbrega, M.C.S. 147&148 (1992) 803
Esquivias, L., see Barrera-Solano, M.C. 147&148 (1992) 194
Esquivias, L., see Ramírez-del-Solar, M. 147&148 (1992) 206
Esquivias, L., see Blanco, E. 147&148 (1992) 296
Esquivias, L., see Cauqui, M.A. 147&148 (1992) 758

Etienne, E., E. Ponthieu, E. Payen and J. Grimblot, Characterization of alumina-based hydrotreated catalysts prepared by sol–gel methods 147&148 (1992) 764
Etienne, P., see Sempéré, R. 147&148 (1992) 499
Evangelisti, F., The structure of silicon- and germanium-based alloys by X-ray absorption spectroscopy 141 (1992) 53

Fabes, B.D., see Taylor, D.J. 147&148 (1992) 457
Fabian, H., see Hitzler, H. 149 (1992) 107
Fagherazzi, G., P. Riello and G.C. Righini, Structural characterization of Cd(Se, S)-doped glasses 142 (1992) 63
Fahrenholtz, W.G., D.M. Smith and D.-W. Hua, Formation of microporous silica gels from a modified silicon alkoxide. I. Base-catalyzed gels 144 (1992) 45
Farago, B., see Schaefer, D.W. 145 (1992) 105
Farok, H.M., G.A. Saunders, W. Poon and H. Vass, Low temperature fluorescence, valence state and elastic anomalies of samarium phosphate glasses 142 (1992) 175
Farrow, L.A. and E.M. Vogel, Raman spectra of phosphate and silicate glasses doped with the cations Ti, Nb and Bi 143 (1992) 59
Fauchet, P.M., D. Hulin, R. Vanderhaghen, A. Mourchid and W.L. Nighan Jr., The properties of free carriers in amorphous silicon 141 (1992) 76
Fedosyuk, V.M. and J.M. Riveiro, Crystallization of single-layered and multilayered amorphous Co–W films 143 (1992) 153
Fellman, J. and T. Westerlund, Determination of the complex indices of refraction of glasses using Kramers–Krönig transformation 146 (1992) 165
Fernandez Navarro, J.M., see Miranda Salvado, I.M. 147&148 (1992) 256
Ferreira da Silva, M.G., J.C. Waerenborgh, J.M.F. Navarro and J.M.P. Cabral, ^{57}Fe Mössbauer effect in sol–gel silicate glasses 147&148 (1992) 146
Festa, D., see Guglielmi, M. 147&148 (1992) 474
Figueruelo, J.E., see Porcar, I. 147&148 (1992) 170
Fink, P., B. Müller and G. Rudakoff, Ammoniation and nitridation of highly disperse silica 145 (1992) 99
Finney, J.L., see Shibata, K. 150 (1992) 251
Flank, A.-M., see Colomban, P. 147&148 (1992) 135
Flank, A.-M., see Udron, D. 150 (1992) 361
Fontana, A., see Rodrigues, P.A.M. 143 (1992) 274
Foret, M., see Pelous, J. 145 (1992) 63
Foret, M., J. Pelous, R. Vacher and J. Marignan, SANS and SAXS investigations of silica aerogels: crossover from fractal structure to short-range packing 145 (1992) 133
Foret, M., see Chougrani, A. 145 (1992) 146
Foret, M., J. Pelous, R. Vacher and J. Marignan, An investigation of the structure of colloidal aerogels 147&148 (1992) 382
Fornasini, P., see Červinka, L. 150 (1992) 140
Fornazero, J., A. El Hachadi and J. Dupuy-Philon, Characterization of different ice habits according to nucleation processes in the electrolyte $LiCl \cdot RH_2O$ ($6 < R < 9$) 150 (1992) 413
Fortmann, C.M., see Cohen, J.D. 141 (1992) 142
François, E., see Lecloux, A.J. 147&148 (1992) 389
Friberg, S.E. and Z. Ma, Hydrolysis of tetraethoxysilane in a liquid crystal, in a microemulsion and in a solution 147&148 (1992) 30
Frick, B., see Schaefer, D.W. 145 (1992) 105
Frick, B., see Buchenau, U. 145 (1992) 121
Fricke, J., see Heinrich, T. 145 (1992) 55
Fricke, J., see Emmerling, A. 145 (1992) 113
Fricke, J., see Wang, P. 145 (1992) 141
Fricke, J., see Stumpf, C. 145 (1992) 180
Fricke, J., see Scheuerpflug, P. 145 (1992) 196
Fricke, J., see Lu, X. 145 (1992) 207
Fricke, J., see Hümmer, E. 145 (1992) 211
Fricke, J., see Gross, J. 145 (1992) 217
Fricke, J., see Schlief, T. 145 (1992) 223
Fricke, J., see Gerlach, R. 145 (1992) 227
Fricke, J., Aerogels and their applications 147&148 (1992) 356
Frischat, G.H., see Wellbrock, U. 147&148 (1992) 350
Fritzsche, H., B.-G. Yoon, D.-Z. Chi and M.Q. Tran, Some observations on the photoconductivity of amorphous semiconductors 141 (1992) 123
Frye, G.C., see Brinker, C.J. 147&148 (1992) 424
Fuchs, H.D., see Cardona, M. 141 (1992) 257
Fujimine, S., see Miyaji, F. 150 (1992) 107
Fujiu, T. and G.L. Messing, Sintering of foamed silica gels 143 (1992) 133
Fukui, T., see Okuyama, M. 143 (1992) 112
Fukui, T., see Okuyama, M. 144 (1992) 298
Fukunaga, J., see Ota, R. 144 (1992) 81
Fukunaga, T., see Wada, M. 149 (1992) 203
Fukunaga, T., K. Suzuki and U. Mizutani, Short range structure of $(Cu_{40}Ti_{60})_x(Ni_{40}Ti_{60})_{1-x}$ ($0 \le x \le 1$) ternary metallic glasses studied by neutron diffraction 150 (1992) 10
Fukunaga, T., K. Suzuki and U. Mizutani, Atomic structure of

$Al_{55}(Cr_{1-x}\text{-}Mn_x)_{15}Si_{30}$ metallic glasses observed by neutron diffraction 150 (1992) 15
Fukunaga, T., see Kakinuma, F. 150 (1992) 53
Fukushima, H., see Hosono, H. 143 (1992) 157
Fukushima, K., see Iwadate, Y. 150 (1992) 87
Furlan, J. and E. Bassanese, Charge carrier transient response to bias enhanced step of light in a-Si 146 (1992) 175
Furukawa, K., see Umesaki, N. 150 (1992) 302

Gadalla, A.M. and S.-J. Yun, Characterization of gels prepared from silicon ethoxide in presence of HCl and HF 143 (1992) 121
Galán, M., J. Llorens, J.M. Gutiérrez, C. González and C. Mans, Ceramic membranes from sol–gel technology 147&148 (1992) 518
Galán, M.I., see González, C. 147&148 (1992) 690
Galeener, F.L., Non-linear γ-ray activation of defect spins in vitreous silica 149 (1992) 27
Gallas, J.P., see Humbert, B. 143 (1992) 75
Ganguli, D., see Patra, A. 144 (1992) 111
García, R., see Porcar, I. 147&148 (1992) 170
Gaskell, P.H., J. Zhao, P. Boden and P. Chieux, Structure of a copper sodium phosphate glass by neutron scattering with isotopic substitution 150 (1992) 80
Gaskell, P.H., A. Saeed, P. Chieux and D.R. McKenzie, Neutron scattering studies of the structure of a highly tetrahedral form of amorphous carbon 150 (1992) 126
Gaspari, F., S. Zukotynski and J.M. Perz, Density of states of inhomogeneous hydrogenated amorphous silicon 143 (1992) 241
Ge, M., H. Yang, Z. Jiang, Y. Wang and F. Zhang, Ultrafine pure mullite powder prepared by sol–gel method 147&148 (1992) 565
Geerds, H., see Schwarz, W. 145 (1992) 244
Gelatos, A.V., see Cohen, J.D. 141 (1992) 142
Genicon, J.L., see Barboux, P. 147&148 (1992) 704
Georges, P., see Canva, M. 147&148 (1992) 627
Georges, P., see Canva, M. 147&148 (1992) 636
Gerber, T., see Nofz, M. 143 (1992) 191
Gerdes, E., see Schütt, H.J. 144 (1992) 1
Gerdes, E., see Schütt, H.J. 144 (1992) 14
Gerlach, R., O. Kraus, J. Fricke, P.-C. Eccardt, N. Kroemer and V. Magori, Modified SiO_2 aerogels as acoustic impedance matching layers in ultrasonic devices 145 (1992) 227
Geus, J.W., see Kloprogge, J.T. 142 (1992) 87
Geus, J.W., see Kloprogge, J.T. 142 (1992) 94
Geyer, V. and C. Rüssel, Oxynitride glasses in the system Mg–Al–Si–O–N, prepared with the aid of an electrochemically derived polymeric precursor 149 (1992) 196
Ghosh, U.S., see Mukherjee, S. 144 (1992) 159
Gigozin, I., see Iosefzon-Kuyavskaya, B. 147&148 (1992) 808
Gillespie, D.J. and A.C. Ehrlich, Electrical conduction in partially carbonized PAN-based fibers 144 (1992) 231
Giridhar, A., see Mahadevan, S. 143 (1992) 52
Giuntini, J.C., see Daviero, S. 146 (1992) 279
Giuntini, J.C., see Bensimon, Y. 149 (1992) 218
Gladden, L.F., see Wright, A.C. 150 (1992) 69
Glaubitt, W., see Schwertfeger, F. 145 (1992) 85
Gobbin, M., see Guglielmi, M. 147&148 (1992) 474
Göbel, E.O. and P. Thomas, Optical dephasing in disordered semiconductors 141 (1992) 35
Godlewski, J., see Sodolski, H. 147&148 (1992) 663
Gohar, I.A., see El-Damrawi, G. 146 (1992) 137
Gómez, R., V. Bertin, M.A. Ramirez, T. Zamudio, P. Bosch, I. Schifter and T. López, Synthesis, characterization and activity of Pt–Sn/Al_2O_3 sol–gel catalysts 147&148 (1992) 748
Gómez, R., see López, T. 147&148 (1992) 753
Gómez, R., see López, T. 147&148 (1992) 769
Gómez, R., see López, T. 147&148 (1992) 773
Gonser, U., see Kondoro, J.W. 143 (1992) 147
González, C., see Galán, M. 147&148 (1992) 518
González, C., J. Gutiérrez, J. Llorens, M.I. Galán and C. Mans, Rheology of alumina sols 147&148 (1992) 690
Gonzalez, R.D., see López, T. 147&148 (1992) 773
Gopala Rao, R.V. and R. Venkatesh, Evaluation of partial and total structure factors, diffusion coefficient and compressibility of liquid phase of glassy calcium–aluminium alloy 146 (1992) 294
Görlitz, C. and H. Ruppersberg, The relaxation of melt-spun amorphous $Ni_{35}Ti_{65}$ ribbons investigated by dilatometry, electrical resistivity and calorimetry techniques 150 (1992) 419
Görlitz, C., S. Hartmann and H. Ruppersberg, Relaxation and crystallization of mechanically alloyed amorphous $Ni_{35}Ti_{65}$ powder 150 (1992) 460
Gracin, D., U.V. Desnica and M. Ivanda, Microstructural properties

of dc magnetron sputtered a-Si:H by IR spectroscopy 149 (1992) 257
Grandjean, D., see Colomban, P. 147&148 (1992) 135
Granier, W., K. Jabobker, A. Pradel and M. Pham Thi, Photoconductivity of PbO-doped borosilicate glass prepared by the sol–gel process 147&148 (1992) 574
Granozzi, G., see Guglielmi, M. 147&148 (1992) 451
Greenblatt, M., see Buckley, A.M. 143 (1992) 1
Greenblatt, M., see Szu, S.-P. 143 (1992) 21
Greenblatt, M., see Buckley, A.M. 146 (1992) 97
Greenblatt, M., see Szu, S. 146 (1992) 129
Greenblatt, M., see Wakamatsu, H. 147&148 (1992) 668
Grein, C.H., see Cardona, M. 141 (1992) 257
Greulich, K.O., see Hitzler, H. 149 (1992) 107
Greulich, K.-O., see Leclerc, N. 149 (1992) 115
Grill, C., see Bouaziz, J. 145 (1992) 71
Grimblot, J., see Ponthieu, E. 147&148 (1992) 598
Grimblot, J., see Etienne, E. 147&148 (1992) 764
Grimm-Leimsner, C., see Rauch, F. 144 (1992) 224
Griscom, D.L., Electron spin resonance characterization of self-trapped holes in amorphous silicon dioxide 149 (1992) 137
Gross, J. and J. Fricke, Ultrasonic velocity measurements in silica, carbon and organic aerogels 145 (1992) 217
Gross, J., see Schlief, T. 145 (1992) 223
Grosse, P., see Hövel, H. 145 (1992) 159
Gueguen, E., see Achibat, T. 144 (1992) 145
Guglielmi, M., P. Colombo, G. Battaglin, P. Mazzoldi, A. De Polo, A. Boscolo-Boscoletto and G. Granozzi, Nitridation of SiO_2–TiO_2 sol–gel coatings by ammonolysis and ion implantation 147&148 (1992) 451
Guglielmi, M., D. Festa, P.C. Innocenzi, P. Colombo and M. Gobbin, Borosilicate coatings on mild steel 147&148 (1992) 474
Guglielmi, M., P. Colombo, L. Mancinelli Degli Esposti, G.C. Righini, S. Pelli and V. Rigato, Characterization of laser-densified sol–gel films for the fabrication of planar and strip optical waveguides 147&148 (1992) 641
Guinebretière, R., A. Dauger, A. Lecomte and H. Vesteghem, Tetragonal zirconia powders from the zirconium *n*-propoxide–acetylacetone–water–isopropanol system 147&148 (1992) 542
Guizard, C., see Larbot, A. 147&148 (1992) 74
Guizard, C., J.C. Achddou, A. Larbot and L. Cot, Sol-to-gel transition in reversed micelle microemulsions. III. Rheology 147&148 (1992) 681
Guldner, G., see Petrullat, J. 147&148 (1992) 594
Gupta, A. and M.E. Jayaraj, Effect of quenching rate on the structure and stability of Co-rich metallic glasses 149 (1992) 275
Gurman, S.J., see Singh, A. 142 (1992) 113
Gurman, S.J., The theory of dielectric functions and its application to amorphous $Si_{1-x}N_x$ 143 (1992) 207
Gurman, S.J., see Baker, S.H. 144 (1992) 63
Gutiérrez, J., see González, C. 147&148 (1992) 690
Gutiérrez, J.M., see Galán, M. 147&148 (1992) 518
Guy, C.A., see Sinclair, R.N. 150 (1992) 219

Haarer, D., see Reul, S. 145 (1992) 149
Hafner, J., see Hausleitner, C. 144 (1992) 175
Hafner, J., W. Jank and J. Holzmannhofer, Polyanionic clustering in crystalline and liquid alkali–group-III metal alloys 150 (1992) 266
Hafner, J., C. Hausleitner, W. Jank and I. Turek, First-principles calculations of the structural, electronic, and magnetic properties of transition-metal glasses 150 (1992) 307
Hafner, J. and M. Krajčí, Stability, atomic and electronic structure of icosahedral quasicrystals 150 (1992) 337
Haghani, M.A., see Ott, K. 142 (1992) 278
Hamakawa, Y., see Hattori, K. 141 (1992) 216
Hammett, F.W., see Laurie, J. 147&148 (1992) 320
Han, S.G., see Vardeny, Z.V. 141 (1992) 66
Handy, B.E., see Schraml-Marth, M. 143 (1992) 93
Hannon, A.C., B. Vessal and J.M. Parker, The structure of alkali silicate glasses 150 (1992) 97
Hannon, A.C., M. Arai, R.N. Sinclair and A.C. Wright, A dynamic correlation function for amorphous solids 150 (1992) 239
Hannon, A.C., see Sinclair, R.N. 150 (1992) 219
Haridim, M., E. Kurin, K. Weiser and H. Mell, Determination of surface recombination velocity of excess carriers in amorphous silicon using the SSPG technique 141 (1992) 119
Harivololona, R., see Hoang-Van, C. 145 (1992) 250
Harris, B., see Laurie, J. 147&148 (1992) 320
Hartmann, S., see Görlitz, C. 150 (1992) 460
Haruyama, O., A. Kuroda and N. Asahi, A comparison of the structures of Ni–Zr amorphous alloys obtained by mechanical alloying and melt spinning 150 (1992) 483
Hashimoto, T., K. Kamiya and H. Nasu, Strengthening of sol–gel-

derived SiO_2 glass fibers by incorporating colloidal silica particles 143 (1992) 31
Hatalová, B. and M. Liška, The bimodality in the SiOSi bond angle distribution in simulated sodium silicate systems 146 (1992) 218
Hattori, K., H. Okamoto and Y. Hamakawa, Investigation of amorphous Si superlattices by electroabsorption: a review 141 (1992) 216
Hattori, T., see Iwadate, Y. 150 (1992) 87
Hauck, M., see Scheuerpflug, P. 145 (1992) 196
Hausleitner, C. and J. Hafner, Structure of amorphous Fe–Zr alloys 144 (1992) 175
Hausleitner, C., see Hafner, J. 150 (1992) 307
Hautala, J. and P.C. Taylor, A review of optical properties of metal chalcogenide glasses 141 (1992) 24
Hayashi, H., see Takahashi, Y. 147&148 (1992) 346
Hayashi, H., T. Kamiyama, Y. Nakamura and Y. Izumi, Dynamical properties of solutions of $LiNO_3$ in (1,3)-diaminopropane in the liquid and glassy states 150 (1992) 297
Hdach, H., see Woignier, T. 147&148 (1992) 672
Hdach, H., see Quinson, J.F. 147&148 (1992) 699
He, M.Z., G.H. Lin and J.O.M. Bockris, Hydrogenated amorphous silicon sulfur alloy deposited with hydrogen dilution 142 (1992) 108
Heenan, R.K. and S.M. King, Small-angle neutron scattering from non-crystalline materials on a pulsed neutron source 150 (1992) 153
Heinemann, U., see Lu, X. 145 (1992) 207
Heinrich, T., F. Raether, W. Tappert and J. Fricke, Synthesis and characterization of mullite aerogels 145 (1992) 55
Heinrich, T. and F. Raether, Structural characterization and phase development of sol–gel-derived mullite and its precursors 147&148 (1992) 152
Henn, F., see Bensimon, Y. 149 (1992) 218
Herrera, L., see López, T. 147&148 (1992) 753
Herrera, L., see López, T. 147&148 (1992) 773
Herrero, P., see Rojo, J.M. 146 (1992) 50
Herrmann, W., see Nofz, M. 149 (1992) 62
Hess, B.C., see Vardeny, Z.V. 141 (1992) 66
Hida, M., Y. Takemoto, A. Sakakibara and H. Maeda, The DSC and EXAFS studies of mechanical agitation effects on the local structure of splat-cooled amorphous $Ni_{75}Si_8B_{17}$ alloy 144 (1992) 196
Himmel, B., see Nofz, M. 143 (1992) 191
Hinsch, A., Organic fluorescent dyes in organically modified Al_2O_3–SiO_2 or TiO_2–SiO_2 coatings with varying polymethylmethacrylate content 147&148 (1992) 478
Hinsch, A. and A. Zastrow, The production of small colloidal silver particles in thin SiO_2 sol–gel glass layers 147&148 (1992) 579
Hirao, K., see Tanabe, S. 142 (1992) 148
Hirao, K., S. Todoroki and N. Soga, CW room temperature upconversion lasing in Er^{3+}-doped fluoride glass fiber 143 (1992) 40
Hirao, K., see Todoroki, S. 143 (1992) 46
Hirao, K., see Umesaki, N. 150 (1992) 120
Hirashima, H. and K. Sudoh, Preparation of V_2O_5 aerogels and aerogel coatings 145 (1992) 51
Hirashima, H., see Sudoh, K. 147&148 (1992) 386
Hiratsuka, R.S., see Vollet, D.R. 142 (1992) 181
Hiratsuka, R.S., C.V. Santilli, D.V. Silva and S.H. Pulcinelli, Effect of electrolyte on the gelation and aggregation of SnO_2 colloidal suspensions 147&148 (1992) 67
Hiratsuka, R.S., see Ribeiro, S.J.L. 147&148 (1992) 162
Hirokawa, T., see Doyama, M. 150 (1992) 429
Hirosaki, N., see Umesaki, N. 150 (1992) 120
Hitzler, H., C. Pfleiderer, N. Leclerc, J. Wolfrum, K.O. Greulich and H. Fabian, KrF-laser irradiation induced defects in all silica optical fibers 149 (1992) 107
Hitzler, H., see Leclerc, N. 149 (1992) 115
Ho, S.C., see Okumura, H. 142 (1992) 165
Hoang-Van, C., B. Pommier, R. Harivololona and P. Pichat, Alumina-based aerogels as carriers for automotive palladium catalysts 145 (1992) 250
Holz, M., see Ehrburger-Dolle, F. 145 (1992) 185
Holzmannhofer, J., see Hafner, J. 150 (1992) 266
Hopkins, B.J. and T.W. Zerda, Positronium interactions with strained surface rings in porous silica 149 (1992) 269
Horii, F., see Kaji, H. 145 (1992) 80
Horiuchi, T., Effects of amide additives on polymerization of silica under acidic conditions 144 (1992) 277
Hornfeck, M., W. Theiss and R. Clasen, IR spectroscopy of porous silica gels 145 (1992) 154
Hoshino, H., see Tamura, K. 150 (1992) 351
Hosokawa, S., see Tamura, K. 150 (1992) 29
Hosokawa, S., Y. Sakaguchi and K. Tamura, X-ray diffraction measurements for liquid As_2Se_3 up to the semiconductor–metal transition region 150 (1992) 35

Hosokawa, S., S. Yamada and K. Tamura, X-ray diffraction measurements for expanded liquid alkali halides at very high temperatures 150 (1992) 40
Hosokawa, S., see Tamura, K. 150 (1992) 351
Hosono, H., Y. Abe and K. Deguchi, Proton-magic-angle-spinning NMR and IR absorption spectra of strongly hydrogen-bonded hydroxyl groups in oxide glasses 142 (1992) 103
Hosono, H., Y. Suzuki, Y. Abe, K. Oyoshi and S. Tanaka, Formation of nanoscale phosphorus colloids in implanted SiO_2 glass 142 (1992) 287
Hosono, H., H. Fukushima, Y. Abe, R.A. Weeks and R.A. Zuhr, Cross-sectional TEM observation of copper-implanted SiO_2 glass 143 (1992) 157
Hours, T., see Larbot, A. 147&148 (1992) 85
Hövel, H., P. Grosse and W. Theiss, Analysis of photoacoustic IR spectra of aerogel and silica powder 145 (1992) 159
Howson, M.A., see Yang, Y.X. 147&148 (1992) 715
Hrubesh, L., see Schaefer, D.W. 145 (1992) 105
Hrubesh, L.W., see Tillotson, T.M. 145 (1992) 44
Hsieh, C.-W., A.S.T. Chiang, C.-C. Lee and S.-J. Yang, Preparation of TiO_2–B_2O_3 coating by the sol–gel method 144 (1992) 53
Hu, Y., see Mackenzie, J.D. 147&148 (1992) 271
Hua, D.-W., see Deshpande, R. 144 (1992) 32
Hua, D.-W., see Fahrenholtz, W.G. 144 (1992) 45
Hubert-Pfalzgraf, L.G., see Papiernik, R. 147&148 (1992) 36
Hughes, V.W., see Schwarz, W. 145 (1992) 244
Hulin, D., see Fauchet, P.M. 141 (1992) 76
Huling, J.C. and G.L. Messing, Chemistry–crystallization relations in molecular mullite gels 147&148 (1992) 213
Hulme, R.A., see Sinclair, R.N. 150 (1992) 219
Hulsey, S.S., see Pekala, R.W. 145 (1992) 90
Humbert, B., A. Burneau, J.P. Gallas and J.C. Lavalley, Origin of the Raman bands, D_1 and D_2, in high surface area and vitreous silicas 143 (1992) 75
Hümmer, E., X. Lu, T. Rettelbach and J. Fricke, Heat transfer in opacified aerogel powders 145 (1992) 211
Hunt, A., Some universalities in the relaxation of glasses 144 (1992) 21
Hurd, A.J., see Brinker, C.J. 147&148 (1992) 424

Ibanez, A., see Daviero, S. 146 (1992) 279
Ibanez, A., see Armand, P. 150 (1992) 371
Ichikawa, K., The effect of annealing on the structure of $Ge_{20}Te_{80}$ glass: atomic-scale imaging using a scanning tunnelling microscope 150 (1992) 435
Igarashi, K., see Umesaki, N. 150 (1992) 302
Iijima, S., see Ajayan, P.M. 150 (1992) 423
Ilharco, L.M., see Matos, M.C. 147&148 (1992) 232
Imai, M., see Yaoita, K. 150 (1992) 25
Imai, M., K. Yaoita, Y. Katayama, J.-Q. Chen and K. Tsuji, Amorphization from the quenched high-pressure phase of silicon and germanium 150 (1992) 49
In, M., see Sanchez, C. 147&148 (1992) 1
Inami, M., see Yamane, M. 147&148 (1992) 606
Ingram, M.D., see Duffy, J.A. 144 (1992) 76
Innocenzi, P.C., see Guglielmi, M. 147&148 (1992) 474
Inoue, A., see Okumura, H. 142 (1992) 165
Inoue, A., see Tsai, A.P. 150 (1992) 327
Inoue, A., see Matsubara, E. 150 (1992) 380
Inoue, A., T. Zhang and T. Masumoto, The structural relaxation and glass transition of La–Al–Ni and Zr–Al–Cu amorphous alloys with a significant supercooled liquid region 150 (1992) 396
Inoue, A., see Okumura, H. 150 (1992) 401
Inoue, A., see Myung, W.-N. 150 (1992) 406
Inoue, H., see Akasaka, Y. 150 (1992) 92
Inoue, K., O. Matsuda and K. Murase, A comparison between the Raman modes of the tetrahedral network in amorphous and layered crystalline $GeSe_2$ 150 (1992) 197
Inoue, K., see Matsuda, O. 150 (1992) 202
Inoue, S., see Nukui, A. 150 (1992) 376
Inui, M., see Tamura, K. 150 (1992) 351
Iosefzon-Kuyavskaya, B., I. Gigozin, M. Ottolenghi, D. Avnir and O. Lev, Spectrophotometric detection of heavy metals by doped sol–gel glass detectors 147&148 (1992) 808
Isakov, S.L., see Sváb, E. 144 (1992) 99
Ishmaev, S.N., see Sváb, E. 144 (1992) 99
Isobe, T., S. Komatsubara and M. Senna, The effects of the homogeneity of non-crystalline Pb–Ti–O gels on the complex thermal processes leading to $PbTiO_3$ formation 150 (1992) 144
Isomura, M. and S. Wagner, The saturation of light-induced defects in hydrogenated amorphous silicon 141 (1992) 204
Ivakin, Y.D., see Danchevskaya, M.N. 149 (1992) 46
Ivanda, M., see Gracin, D. 149 (1992) 257
Ivanitsky, V.P., see Luksha, O.V. 144 (1992) 253
Iwadate, Y., K. Fukushima, T. Hattori and J. Mochinaga, An X-ray

diffraction study of the structure of B_2O_3–Cs_2O liquids 150 (1992) 87
Iwasaki, M., see Uchino, T. 146 (1992) 26
Iwashita, T., see Oguchi, T. 150 (1992) 448
Iyer, R.M., see Raj, P. 146 (1992) 63
Izumi, K., H. Tanaka, Y. Uchida, N. Tohge and T. Minami, Influence of firing conditions on adhesion of methyltrialkoxysilane-derived coatings on steel sheets 147&148 (1992) 483
Izumi, Y., see Hayashi, H. 150 (1992) 297

Jabobker, K., see Granier, W. 147&148 (1992) 574
Jäger, C., see Losso, P. 143 (1992) 265
Jäger, C., W. Müller-Warmuth, C. Mundus and L. van Wüllen, ^{27}Al MAS-NMR spectroscopy of glasses: new facilities by application of 'SATRAS' 149 (1992) 209
Jal, J.F., see Dupuy-Philon, J. 150 (1992) 275
James, P.F., see Chen, M. 147&148 (1992) 532
Jamnický, M., see Znášik, P. 146 (1992) 74
Jang, D.-H., see Myung, W.-N. 150 (1992) 406
Jank, W., see Hafner, J. 150 (1992) 266
Jank, W., see Hafner, J. 150 (1992) 307
Janot, C., M. de Boissieu, M. Boudard, H. Vincent, M. Durand, J.M. Dubois and C. Dong, A single-crystal X-ray diffraction study of an $Al_{70.5}Pd_{21}Mn_{8.5}$ icosahedral quasicrystal 150 (1992) 322
Jansen, J.B.H., see Kloprogge, J.T. 142 (1992) 87
Jansen, J.B.H., see Kloprogge, J.T. 142 (1992) 94
Jansen, J.B.H., see van Beek, J.J. 146 (1992) 111
Jayaraj, M.E., see Gupta, A. 149 (1992) 275
Jensen, K.I., Passive solar component based on evacuated monolithic silica aerogel 145 (1992) 237
Jewell, J.M. and I.D. Aggarwal, Thermal lensing in heavy metal fluoride glasses 142 (1992) 260
Jewell, J.M., Model for the thermo-optic behavior of sodium borate and sodium aluminosilicate glasses 146 (1992) 145
Jiang, H.G., see Tong, H.Y. 150 (1992) 444
Jiang, Z. and Y. Tang, Study of structural characteristics in some ternary borate glass systems by the phase diagram model 146 (1992) 57
Jiang, Z., see Ge, M. 147&148 (1992) 565
Jones, D.J., see Colomban, P. 147&148 (1992) 135
Jones, R.W., see Laurie, J. 147&148 (1992) 320
Jones, S.J., see Paul, W. 141 (1992) 271
Joshi, B.C. and M.C. Joshi, Sensitizing Pr^{3+} ions by Tm^{3+} ions in phosphate glass 142 (1992) 171
Joshi, M.C., see Joshi, B.C. 142 (1992) 171
Joubert, J.C., see Langlet, M. 147&148 (1992) 488
Juarez, R., see López, T. 147&148 (1992) 778
Julbe, A., see Larbot, A. 147&148 (1992) 74
Jungmann, K., see Schwarz, W. 145 (1992) 244
Juška, G., see Kočka, J. 141 (1992) 133

Kadlc, Z., see Kratochvíla, J. 143 (1992) 14
Kadono, K., see Kinugawa, K. 150 (1992) 281
Kaji, H., K. Nakanishi, N. Soga and F. Horii, Modification of nanometer range pores in silica gels with interconnected macropores by solvent exchange 145 (1992) 80
Kakinuma, F., T. Fukunaga, M. Misawa and K. Suzuki, The structure of liquid Sb–Se alloys 150 (1992) 53
Kalinowski, J., see Sodolski, H. 147&148 (1992) 663
Kallala, M., C. Sanchez and B. Cabane, SAXS study of gelation and precipitation in titanium-based systems 147&148 (1992) 189
Kamata, N., see Tonooka, K. 150 (1992) 185
Kamiya, K., see Hashimoto, T. 143 (1992) 31
Kamiya, K., see Wada, M. 149 (1992) 203
Kamiyama, T., M. Mikami and K. Suzuki, A SAXS study of the gelation process of silicon and titanium alkoxides 150 (1992) 157
Kamiyama, T., see Muramatsu, S. 150 (1992) 163
Kamiyama, T., see Suzuya, K. 150 (1992) 167
Kamiyama, T., S. Matsuo and K. Suzuki, A SAXS observation of the crystallization of an $Al_{85}Y_{10}Ni_5$ amorphous alloy in the supercooled liquid state 150 (1992) 172
Kamiyama, T., K. Shibata and K. Suzuki, A coherent quasielastic neutron scattering study of NO_3^- ion motion in molten $RbNO_3$ 150 (1992) 292
Kamiyama, T., see Hayashi, H. 150 (1992) 297
Kanazawa, I., Melting and short-range order in liquids and glasses 150 (1992) 271
Kanazawa, I., see Oguchi, T. 150 (1992) 448
Kanda, H., see Tsuchiya, T. 147&148 (1992) 463
Kaneko, Y., K. Tsutsui and T. Tsukada, Back-bias effect on the current–voltage characteristics of amorphous silicon thin-film transistors 149 (1992) 264
Katayama, Y., E. Ando and T. Kawaguchi, Characterization of SiO_2 films on glass substrate by sol–gel and vacuum deposition methods 147&148 (1992) 437
Katayama, Y., see Yaoita, K. 150 (1992) 25
Katayama, Y., see Imai, M. 150 (1992) 49
Kato, C., see Sugahara, Y. 147&148 (1992) 24

Kato, Y., see Tanaka, H. 150 (1992) 21
Katoh, A., see Ohishi, T. 147&148 (1992) 493
Katulevskii, Y.A., M.A. Magrupov and A.A. Muminov, Peculiarities of magnetic resonance in organic ferromagnet of pyrolyzed polyacrylonitrile. 142 (1992) 155
Kawaguchi, T., see Dai, Y. 142 (1992) 159
Kawaguchi, T., see Katayama, Y. 147&148 (1992) 437
Kawamura, K., see Takahashi, M. 150 (1992) 103
Kazda, A., see Kratochvíla, J. 143 (1992) 14
Keizer, K., see Kumar, K.-N.P. 147&148 (1992) 375
Kemp, M. and M. Silver, The puzzle surrounding luminescence models 141 (1992) 88
Kentgens, A.P.M., see van Blaaderen, A. 149 (1992) 161
Khabibullaev, P.K., see Achilov, M.F. 143 (1992) 246
Khare, M., see Srivastava, S.K. 150 (1992) 216
Kharshak, A.A., see Chmel, A. 146 (1992) 213
Kikegawa, T., see Yaoita, K. 150 (1992) 25
Kilian, A., see Oh, K. 149 (1992) 229
Kim, S.-J., see Myung, W.-N. 150 (1992) 406
King, S.M., see Heenan, R.K. 150 (1992) 153
Kinugawa, K., K. Kadono and H. Tanaka, Dynamical properties of an alkali chloride mixture in the glassy and liquid states 150 (1992) 281
Kirches, S., see Schwarz, W. 145 (1992) 244
Kirkpatrick, R.J., see Sato, R.K. 143 (1992) 257
Kishore, N., see Malik, S.K. 142 (1992) 55
Kizler, P., X-ray absorption near edge structure spectroscopy (XANES) investigations of amorphous alloys 150 (1992) 342
Kjems, J.K., see Bernasconi, A. 145 (1992) 202
Klein, L.C., see Szu, S.-P. 143 (1992) 21
Klein, L.C., see Szu, S. 146 (1992) 129
Klein, L.C., see Wakamatsu, H. 147&148 (1992) 668
Klemens, P.G., Theory of thermal conduction in low density materials 145 (1992) 191
Klíma, O., see Kočka, J. 141 (1992) 133
Klinger, M., Soft configurations and anomalous properties of nonmetallic glasses 149 (1992) 1
Klinger, M., Atomic low-energy dynamics in glasses 150 (1992) 212
Kłonkowski, A.M. and C.W. Schlaepfer, Electron paramagnetic resonance spectra of Cu(II) at cross-linking points in organically modified silicate gels 149 (1992) 189
Kloprogge, J.T., D. Seykens, J.W. Geus and J.B.H. Jansen, Temperature influence on the Al13 complex in partially neutralized aluminum solutions: a ^{27}Al nuclear magnetic resonance study 142 (1992) 87
Kloprogge, J.T., D. Seykens, J.B.H. Jansen and J.W. Geus, A ^{27}Al nuclear magnetic resonance study on the optimalization of the development of the Al13 polymer 142 (1992) 94
Koch, C.C., see Nasu, T. 150 (1992) 491
Kočka, J., O. Klíma, E. Šípek and G. Juška, Phototransport in a-Si:H at high electric fields 141 (1992) 133
Kojima, K., F. Mizukami, M. Miyazaki and K. Maeda, Selective formation of thin film iron garnet by complexing agent-assisted sol–gel processing 147&148 (1992) 442
Kokubo, T., see Ohtsuki, C. 143 (1992) 84
Kolenda, F., see Dessalces, G. 147&148 (1992) 141
Kolobov, A.V., V.A. Bershtein and S.R. Elliott, Athermal photoamorphization of $As_{50}Se_{50}$ films 150 (1992) 116
Komatsu, T., R. Sato, N. Tamoto, K. Nakamura and K. Matusita, Glass-forming ability and superconductivity in $Bi_{2-x}Pb_xSr_2Ca$-Cu_2O_y glass-ceramics 146 (1992) 240
Komatsubara, S., see Isobe, T. 150 (1992) 144
Kondoro, J.W., F. Aubertin, S.J. Campbell and U. Gonser, Surface crystallisation in Fe–Ni–B amorphous alloys 143 (1992) 147
Kong, F.M., see Pekala, R.W. 145 (1992) 90
Konstantinov, L., see Zotov, N. 142 (1992) 234
Koppe, S., see Schwarz, W. 145 (1992) 244
Kordas, G., EPR spectroscopy on sol–gel glasses 147&148 (1992) 106
Körner, W., see Wang, P. 145 (1992) 141
Kowada, Y., see Tatsumisago, M. 150 (1992) 207
Kowada, Y., H. Adachi, M. Tatsumisago and T. Minami, Application of the DV-Xα cluster method to calculations of the electronic structure of silicate and phosphate glasses 150 (1992) 318
Krajčí, M., see Hafner, J. 150 (1992) 337
Kratochvíla, J., Z. Kadlc, A. Kazda and Z. Salajka, Reactions of silica gel with alkylaluminum compounds and titanium tetrachloride 143 (1992) 14
Kraus, O., see Gerlach, R. 145 (1992) 227
Kroemer, N., see Gerlach, R. 145 (1992) 227
Krueger, S., see Schaefer, D.W. 145 (1992) 105
Krug, H., N. Merl and H. Schmidt, Fine patterning of thin sol–gel films 147&148 (1992) 447
Kubeckova, M., M. Sedlar and V. Matejec, Characterization of sol–gel derived coatings on optical fibers 147&148 (1992) 404

Kuhn, J., see Wang, P. 145 (1992) 141
Kuhn, J., see Lu, X. 145 (1992) 207
Kumar, K.-N.P., V.T. Zaspalis, K. Keizer and A.J. Burggraaf, Drying process in the formation of sol–gel-derived TiO_2 ceramic membrane 147&148 (1992) 375
Kuribayashi, H., see Ota, R. 144 (1992) 81
Kurin, E., see Haridim, M. 141 (1992) 119
Kuroda, A., see Haruyama, O. 150 (1992) 483
Kuroda, K., see Sugahara, Y. 147&148 (1992) 24

Laaziz, I., see Larbot, A. 147&148 (1992) 157
Lace, L.A., see Silin, A.R. 149 (1992) 54
Lacroix, M., see Quinson, J.F. 147&148 (1992) 699
Łada, W., see Deptuła, A. 147&148 (1992) 537
Lagarde, P., see Udron, D. 150 (1992) 361
Lahaye, J., see Ehrburger-Dolle, F. 145 (1992) 185
Lakshman, S.V.J., see Rao, A.S. 144 (1992) 169
Lambson, E.F., see Wang, Q. 143 (1992) 65
Langlet, M., D. Walz, P. Marage and J.C. Joubert, SiO_2 thin films deposited by a new sol–gel technique 147&148 (1992) 488
Lannin, J.S., Finite size effects on the dynamics of amorphous and nanocrystalline materials 141 (1992) 233
Larbot, A., H. Bali, M. Rafiq, A. Julbe, C. Guizard and L. Cot, Elaboration and characterization of lead perovskites from colloidal solution 147&148 (1992) 74
Larbot, A., T. Hours, P. Bergez, J. Charpin and L. Cot, Study of sol–gel transition during hafnium alkoxide hydrolysis 147&148 (1992) 85
Larbot, A., I. Laaziz, J. Marignan and J.F. Quinson, Porous texture of a titanium oxide gel: evolution as a function of medium used 147&148 (1992) 157
Larbot, A., see Guizard, C. 147&148 (1992) 681
Larnac, G., see Woignier, T. 147&148 (1992) 672
Larrue, D., see Canva, M. 147&148 (1992) 636
Laurent, Y., see Achibat, T. 144 (1992) 145
Laurie, J., C.M. Bagnall, B. Harris, R.W. Jones, R.G. Cooke, R.S. Russell-Floyd, T.H. Wang and F.W. Hammett, Colloidal suspensions for the preparation of ceramics by a freeze casting route 147&148 (1992) 320
Lavalley, J.C., see Humbert, B. 143 (1992) 75
Laveissiere, F., see Woignier, T. 145 (1992) 25
Lawandy, N.M. and R.L. MacDonald, Magnetic field effects in optically encoded second harmonic generation in germanosilicate glasses 141 (1992) 47
Lebon, S., J. Marignan and J. Appell, Titania gels: aggregation and gelation kinetics 147&148 (1992) 92
Leclerc, N., see Hitzler, H. 149 (1992) 107
Leclerc, N., C. Pfleiderer, H. Hitzler, J. Wolfrum, K.-O. Greulich, S. Thomas and W. Englisch, Luminescence and transient absorption bands in fused SiO_2 induced by KrF laser radiation at various temperatures 149 (1992) 115
Leclercq, D., see Belot, V. 144 (1992) 287
Leclercq, D., see Corriu, R.J.P. 146 (1992) 301
Leclercq, D., see Belot, V. 147&148 (1992) 52
Leclercq, D., see Belot, V. 147&148 (1992) 309
Lecloux, A.J., E. François, A. Mohsine, F. Noville and J.-P. Pirard, Texture evolution of zirconium oxide xerogels prepared by sol–gel process 147&148 (1992) 389
Lecomte, A., see Vesteghem, H. 147&148 (1992) 503
Lecomte, A., see Guinebretière, R. 147&148 (1992) 542
Lee, C.-C., see Hsieh, C.-W. 144 (1992) 53
Lee, S.C., see Uhlmann, D.R. 147&148 (1992) 409
Lee, W.E., see Chen, M. 147&148 (1992) 532
Leela-Adisorn, U., see Conradt, R. 145 (1992) 75
Lefèvre, P., see Corriu, R.J.P. 146 (1992) 301
Lembke, U., see Müller, M.P.A. 144 (1992) 240
Lemiti, M., S. Audisio, J.C. Dupuy and B. Balland, Silicon nitride films deposited by Hg-photosensitization chemical vapor deposition 144 (1992) 261
Le Saux, G., see Canva, M. 147&148 (1992) 627
Lev, O., see Iosefzon-Kuyavskaya, B. 147&148 (1992) 808
Levy, D., Sol–gel glasses for optics and electro-optics 147&148 (1992) 508
Levy, D., see Ocaña, M. 147&148 (1992) 621
Levy, D., J.M.S. Pena, C.J. Serna and J.M. Otón, Glass dispersed liquid crystals for electro-optical devices 147&148 (1992) 646
Lévy, M., see Montani, R.A. 149 (1992) 249
Li, H. and R.C. Bradt, The indentation load/size effect and the measurement of the hardness of vitreous silica 146 (1992) 197
Licheri, G., see Buffa, F. 150 (1992) 386
Lin, G.H., see He, M.Z. 142 (1992) 108
Liška, M., see Hatalová, B. 146 (1992) 218
Liu, B.X. and C.H. Shang, Disclination loops observed in ion irradiated Ni–Mo amorphous films and their fractal characteristics 150 (1992) 332
Livage, J. and C. Sanchez, Sol–gel chemistry 145 (1992) 11
Livage, J., P. Barboux, M.T. Vandenborre, C. Schmutz and F. Taulelle, Sol–gel synthesis of phosphates 147&148 (1992) 18

Livage, J., see Diré, S. 147&148 (1992) 62
Livage, J., see Babonneau, F. 147&148 (1992) 280
Livage, J., see Barboux, P. 147&148 (1992) 704
Livi, R.P., see Rauch, F. 144 (1992) 224
Llorens, J., see Galán, M. 147&148 (1992) 518
Llorens, J., see González, C. 147&148 (1992) 690
Lomovskoi, V.A., see Bartenev, G.M. 146 (1992) 225
Long, G., see Schaefer, D.W. 145 (1992) 105
López, T., see Gómez, R. 147&148 (1992) 748
López, T., M. Morán, J. Navarrete, L. Herrera and R. Gómez, Synthesis and spectroscopic characterization of Pt and Pd silica supported catalysts 147&148 (1992) 753
López, T., M. Asomoza and R. Gómez, Catalytic properties of silico-aluminates prepared by the sol–gel method: isopropanol dehydration 147&148 (1992) 769
López, T., L. Herrera, J. Mendez-Vivar, P. Bosch, R. Gómez and R.D. Gonzalez, Support effect in ruthenium sol–gel catalysts on silica and alumina 147&148 (1992) 773
López, T., J. Mendez-vivar and R. Juarez, Study of rhodium-supported catalysts prepared via the sol–gel method 147&148 (1992) 778
Losso, P., B. Schnabel, C. Jäger, U. Sternberg, D. Stachel and D.O. Smith, ^{31}P NMR investigations of binary alkaline earth phosphate glasses of ultra phosphate composition 143 (1992) 265
Lu, K., see Tong, H.Y. 150 (1992) 444
Lu, X., see Zhu, C. 144 (1992) 89
Lu, X., P. Wang, M.C. Arduini-Schuster, J. Kuhn, D. Büttner, O. Nilsson, U. Heinemann and J. Fricke, Thermal transport in organic and opacified silica monolithic aerogels 145 (1992) 207
Lu, X., see Hümmer, E. 145 (1992) 211
Lucas, J., see Zhang, X.H. 146 (1992) 154
Lucovsky, G., Hydrogen in amorphous silicon: local bonding and vibrational properties 141 (1992) 241
Luksha, O.V., V.I. Mikla, V.P. Ivanitsky, A.V. Mateleshko and D.G. Semak, Effect of composition on structure and properties of $Se_{100-x}As_x$ amorphous films with low As content ($x \leqslant 10$) 144 (1992) 253

Ma, H.L., see Zhang, X.H. 146 (1992) 154
Ma, Q., D. Raoux and S. Benazeth, X-ray scattering studies of the short and medium range ordering in As_xTe_{1-x} glasses 150 (1992) 366
Ma, Q., see Armand, P. 150 (1992) 371
Ma, Z., see Friberg, S.E. 147&148 (1992) 30
Maas, F., see Schwarz, W. 145 (1992) 244
MacDonald, R.L., see Lawandy, N.M. 141 (1992) 47
Macêdo, M.A., L.H. Dall'Antonia, B. Valla and M.A. Aegerter, Electrochromic smart windows 147&148 (1992) 792
Macias, M., P.J. Sanchez-Soto and J.A. Navio, Kinetic study of crystallization in zirconium titanate from an amorphous reactive prepared precursor 147&148 (1992) 262
Mackenzie, J.D., Y.J. Chung and Y. Hu, Rubbery ormosils and their applications 147&148 (1992) 271
Mackenzie, J.D., see Takada, T. 147&148 (1992) 631
Maeda, H., see Hida, M. 144 (1992) 196
Maeda, K., see Kojima, K. 147&148 (1992) 442
Maekawa, S., see Ohishi, T. 147&148 (1992) 493
Magori, V., see Gerlach, R. 145 (1992) 227
Magruder III, R.H., see Weeks, R.A. 149 (1992) 122
Magrupov, M.A., see Katulevskii, Y.A. 142 (1992) 155
Mahadevan, S. and A. Giridhar, Floppy to rigid transition and chemical ordering in Ge–Sb(As)–Se glasses 143 (1992) 52
Makishima, A., see Nukui, A. 150 (1992) 376
Malier, L., F. Devreux, F. Chaput, J.P. Boilot and M.A.V. Axelos, ^{29}Si NMR and viscosity study of the sol–gel transition and evolution after the gel time 147&148 (1992) 686
Malik, S.K., K.L. Bhatia, N. Kishore and J.S. Phor, EPR of Mn-doped Pb-modified amorphous germanium chalcogenide semiconductors 142 (1992) 55
Mancinelli Degli Esposti, L., see Guglielmi, M. 147&148 (1992) 641
Mannheimer, W.A., see Nóbrega, M.C.S. 147&148 (1992) 803
Mans, C., see Galán, M. 147&148 (1992) 518
Mans, C., see González, C. 147&148 (1992) 690
Mansingh, A., see Chopra, N. 146 (1992) 261
Manssor, M.I., see Baker, S.H. 144 (1992) 63
Manzalji, T., see Tleimat-Manzalji, R. 147&148 (1992) 744
Mao, D. and P.J. Bray, ^{11}B NQR and NMR studies of lead borates 144 (1992) 217
Mao, Y., see Weng, W. 147&148 (1992) 102
Marage, P., see Langlet, M. 147&148 (1992) 488
Marchand, R., see Achibat, T. 144 (1992) 145
Marignan, J., see Foret, M. 145 (1992) 133
Marignan, J., see Lebon, S. 147&148 (1992) 92
Marignan, J., see Larbot, A. 147&148 (1992) 157

Marignan, J., see Foret, M. 147&148 (1992) 382
Marillet, J. and D. Bourret, Crystallization of lead titanate $PbTiO_3$ gel-derived solder glasses 147&148 (1992) 266
Marongiu, G., see Corrias, A. 150 (1992) 487
Marron, P., see McDonagh, C. 147&148 (1992) 97
Marsmann, H.C., see Damrau, U. 145 (1992) 164
Martínez, O.E., see Mingolo, N. 146 (1992) 233
Maruyama, F., see Tonooka, K. 150 (1992) 185
Massabni, A.M.G., see Ribeiro, S.J.L. 147&148 (1992) 162
Masumoto, T., see Okumura, H. 142 (1992) 165
Masumoto, T., see Tsai, A.P. 150 (1992) 327
Masumoto, T., see Matsubara, E. 150 (1992) 380
Masumoto, T., see Inoue, A. 150 (1992) 396
Masumoto, T., see Okumura, H. 150 (1992) 401
Masumoto, T., see Myung, W.-N. 150 (1992) 406
Matejec, V., see Kubeckova, M. 147&148 (1992) 404
Mateleshko, A.V., see Luksha, O.V. 144 (1992) 253
Mathur, P., see Chopra, N. 146 (1992) 261
Matos, M.C., L.M. Ilharco and R.M. Almeida, The evolution of TEOS to silica gel and glass by vibrational spectroscopy 147&148 (1992) 232
Matsubara, E., T. Tamura, Y. Waseda, T. Zhang, A. Inoue and T. Masumoto, An anomalous X-ray structural study of an amorphous $La_{55}Al_{25}Ni_{20}$ alloy with a wide supercooled liquid region 150 (1992) 380
Matsubara, S., see Muramatsu, S. 150 (1992) 163
Matsuda, O., see Inoue, K. 150 (1992) 197
Matsuda, O., K. Inoue, T. Nakane and K. Murase, Disorder in $GeSe_2$ small crystals and médium-range structure in amorphous $GeSe_2$ 150 (1992) 202
Matsui, M., see Doyama, M. 150 (1992) 429
Matsumoto, K., see Tonooka, K. 150 (1992) 185
Matsumoto, T., see Okuno, M. 150 (1992) 356
Matsuo, S., see Kamiyama, T. 150 (1992) 172
Matsuoka, H., see Doyama, M. 150 (1992) 429
Matsuoka, J., see Wada, M. 149 (1992) 203
Matsuura, M., see Cargill III, G.S. 150 (1992) 347
Matsuyama, I., see Susa, K. 146 (1992) 81
Matsuyama, I., see Satoh, S. 146 (1992) 121
Matteazzi, P., see Miani, F. 143 (1992) 140
Matusita, K., see Komatsu, T. 146 (1992) 240
Mauzac, C., see Ehrburger-Dolle, F. 145 (1992) 185
Mayagoitia, V., A. Domínguez and F. Rojas, Twofold description of the morphology of colloid aggregates and other complex structures 147&148 (1992) 183
Mazzoldi, P., see Guglielmi, M. 147&148 (1992) 451
McDonagh, C., G. Ennis, P. Marron, B. O'Kelly, Z.R. Tang and J.F. McGilp, Characterisation of sol–gel glasses using optical probes 147&148 (1992) 97
McGilp, J.F., see McDonagh, C. 147&148 (1992) 97
McKenzie, D.R., see Gaskell, P.H. 150 (1992) 126
Mecholsky Jr., J.J. and J.R. Plaia, Fractal analysis on fracture surfaces of glass using replication techniques 146 (1992) 249
Medda, M.P., see Ennas, G. 150 (1992) 65
Medda, M.P., A. Musinu, G. Paschina and G. Piccaluga, An X-ray diffraction study of sodium borate glasses 150 (1992) 76
Mehrotra, R.C., Precursors for aerogels 145 (1992) 1
Mejdani, R., The mean 'size' of polyatomic boxes for a binary mixing 144 (1992) 203
Mell, H., see Haridim, M. 141 (1992) 119
Mendez-Vivar, J., see López, T. 147&148 (1992) 773
Mendez-Vivar, J., see López, T. 147&148 (1992) 778
Meng, C., S.-y. Chen, M.-y. Qiao and Z.-j. Shao, Determination of activation energy for crystallization in metallic glass by small angle X-ray scattering 144 (1992) 308
Mennig, M., J. Spanhel, H. Schmidt and S. Betzholz, Photoinduced formation of silver colloids in a borosilicate sol–gel system 147&148 (1992) 326
Menon, N., K.P. O'Brien, P.K. Dixon, L. Wu, S.R. Nagel, B.D. Williams and J.P. Carini, Wide-frequency dielectric susceptibility measurements in glycerol 141 (1992) 61
Merl, N., see Krug, H. 147&148 (1992) 447
Messing, G.L., see Fujiu, T. 143 (1992) 133
Messing, G.L., see Huling, J.C. 147&148 (1992) 213
Messing, G.L., see Minehan, W.T. 147&148 (1992) 582
Mészáros, G., see Sváb, E. 144 (1992) 99
Miani, F. and P. Matteazzi, Estimation of viscosity in undercooled liquid metal alloys 143 (1992) 140
Mihalkovič, M. and P. Mrafko, Semistatistical model of AlMnSi-type icosahedral quasicrystal 143 (1992) 225
Mikami, M., see Kamiyama, T. 150 (1992) 157
Mikla, V.I., see Luksha, O.V. 144 (1992) 253
Milne, S.J., see Phillips, N.J. 147&148 (1992) 285
Milne, S.J., see Yang, Y.X. 147&148 (1992) 715
Minami, T., see Izumi, K. 147&148 (1992) 483
Minami, T., see Tohge, N. 147&148 (1992) 652
Minami, T., see Takahashi, M. 150 (1992) 103
Minami, T., see Tatsumisago, M. 150 (1992) 207
Minami, T., see Kowada, Y. 150 (1992) 318
Minehan, W.T., M.R. Schaefer and G.L. Messing, Sintering of titania–silica powder compacts with a bimodal pore-size distribution 147&148 (1992) 582
Mingolo, N. and O.E. Martínez, Kinetics of glass formation induced

by the addition of perturbing particles 146 (1992) 233
Miranda Salvado, I.M. and J.M. Fernandez Navarro, TiO_2–SiO_2 glasses prepared by the alkoxide route 147&148 (1992) 256
Misawa, M., see Wada, M. 149 (1992) 203
Misawa, M., see Kakinuma, F. 150 (1992) 53
Misawa, M., Orientational correlation in molecular liquids estimated from experimental structure factors 150 (1992) 58
Misono, T., see Abe, Y. 147&148 (1992) 47
Mîţulescu-Ungur, D., see Ardelean, I. 146 (1992) 256
Miura, Y., see Osaka, A. 142 (1992) 81
Miyaji, F., S. Fujimine, T. Yoko and S. Sakka, Structure and properties of Bi_2O_3–BaO–CuO glasses 150 (1992) 107
Miyaji, F., see Yoko, T. 150 (1992) 192
Miyazaki, M., see Kojima, K. 147&148 (1992) 442
Mizukami, F., see Kojima, K. 147&148 (1992) 442
Mizuseki, H., see Shibata, K. 150 (1992) 251
Mizushima, Y., Preparation of alkoxide-derived chitosan–silica complex membrane 144 (1992) 305
Mizutani, U., see Fukunaga, T. 150 (1992) 10
Mizutani, U., see Fukunaga, T. 150 (1992) 15
Mochida, N., see Sekiya, T. 144 (1992) 128
Mochinaga, J., see Iwadate, Y. 150 (1992) 87
Mohsine, A., see Lecloux, A.J. 147&148 (1992) 389
Mondalski, P., see Sodolski, H. 147&148 (1992) 663
Monkenbusch, M., see Buchenau, U. 145 (1992) 121
Monrós, G., see Carda, J. 147&148 (1992) 303
Monrós, G., J. Carda, M.A. Tena, P. Escribano, M. Sales and J. Alarcón, Synthesis and characterization of V_2O_5–SiO_2–ZrO_2 pigments by sol–gel method 147&148 (1992) 588
Montague, D.G., see Dejus, R.J. 143 (1992) 162
Montani, R.A., M. Lévy and J.L. Souquet, An electrothermal model for high-field conduction and switching phenomena in TeO_2–V_2O_5 glasses 149 (1992) 249
Morán, M., see López, T. 147&148 (1992) 753
Morigaki, K., Self-trapping of holes and light- and thermally induced defect creation in a-Si:H 141 (1992) 166
Morozov, N.V., see Barabanov, V.S. 149 (1992) 102
Morse, T.F., see Oh, K. 149 (1992) 229
Mortensen, K., see Posselt, D. 145 (1992) 128
Moses, J.M., R.J. Willey and S. Rouanet, Development and processing of aerogels in a windowed autoclave 145 (1992) 41
Motakef, S., see Uhlmann, D.R. 147&148 (1992) 409
Mourchid, A., see Fauchet, P.M. 141 (1992) 76
Mrafko, P., see Mihalkovič, M. 143 (1992) 225
Mugnier, J., see Bahtat, M. 147&148 (1992) 123
Mukherjee, S., C. Basu and U.S. Ghosh, Ultrasonic properties of V_2O_5–P_2O_5 amorphous materials at different temperatures 144 (1992) 159
Mukherjee, S.P., D. Suryanarayana and D.H. Strope, Sol–gel processing in electronic packaging materials 147&148 (1992) 783
Müller, B., see Fink, P. 145 (1992) 99
Müller, M.P.A., U. Lembke, U. Woggon and I. Rückmann, Growth of CdSe microcrystallites in a borosilicate glass matrix. I. Preparation and X-ray analysis 144 (1992) 240
Müller-Warmuth, W., see El-Damrawi, G. 146 (1992) 137
Müller-Warmuth, W., see Jäger, C. 149 (1992) 209
Muminov, A.A., see Katulevskii, Y.A. 142 (1992) 155
Mundinger, H.-J., see Schwarz, W. 145 (1992) 244
Mundus, C., see Jäger, C. 149 (1992) 209
Muramatsu, S., S. Matsubara, T. Watanabe, T. Shimada, T. Kamiyama and K. Suzuki, Small-angle X-ray scattering studies of a-Si_{1-x}-Ge_x:H alloys 150 (1992) 163
Muramatsu, Y., see Aoki, A. 147&148 (1992) 720
Murase, K., see Inoue, K. 150 (1992) 197
Murase, K., see Matsuda, O. 150 (1992) 202
Musinu, A., see Ennas, G. 150 (1992) 65
Musinu, A., see Medda, M.P. 150 (1992) 76
Musinu, A., see Corrias, A. 150 (1992) 487
Mutin, P.H., see Belot, V. 144 (1992) 287
Mutin, P.H., see Corriu, R.J.P. 146 (1992) 301
Mutin, P.H., see Belot, V. 147&148 (1992) 52
Mutin, P.H., see Belot, V. 147&148 (1992) 309
Myung, W.-N., S.-J. Kim, D.-H. Jang, H. Okumura, A. Inoue and T. Masumoto, Internal friction and structural relaxation of amorphous Fe–Mn–P alloys 150 (1992) 406

Nagao, Y., see Abe, Y. 147&148 (1992) 47
Nagasaka, K., see Nogami, M. 147&148 (1992) 331
Nagel, S.R., see Menon, N. 141 (1992) 61
Naito, S., see Arai, T. 150 (1992) 314
Nakamura, K., see Komatsu, T. 146 (1992) 240
Nakamura, Y., see Hayashi, H. 150 (1992) 297
Nakane, T., see Matsuda, O. 150 (1992) 202
Nakanishi, K. and N. Soga, Phase separation in silica sol–gel system containing polyacrylic acid. III. Effect of catalytic condition 142 (1992) 36
Nakanishi, K. and N. Soga, Phase separation in silica sol–gel system containing polyacrylic acid. IV. Effect of chemical additives 142 (1992) 45

Nakanishi, K., see Kaji, H. 145 (1992) 80

Nakanishi, K., R. Takahashi and N. Soga, Dual-porosity silica gels by polymer-incorporated sol–gel process 147&148 (1992) 291

Namiki, T., see Abe, Y. 147&148 (1992) 47

Nanba, T., see Osaka, A. 142 (1992) 81

Nandakumar, K. and J. Philip, Composition dependence of optical band gap and thermal diffusivity of As–Te–Se glasses 144 (1992) 247

Nasu, H., see Hashimoto, T. 143 (1992) 31

Nasu, H., see Wada, M. 149 (1992) 203

Nasu, T., C.C. Koch, A.M. Edwards and D.E. Sayers, An EXAFS study of structural changes induced by mechanical milling of the Ni_3Al ordered intermetallic compound 150 (1992) 491

Navarra, G., see Buffa, F. 150 (1992) 386

Navarrete, J., see López, T. 147&148 (1992) 753

Navarro, J.M.F., see Ferreira da Silva, M.G. 147&148 (1992) 146

Navio, J.A., see Macias, M. 147&148 (1992) 262

Nesládek, M., A. Tříska and G.J. Adriaenssens, Study of the deep-states density by time-resolved transient photocurrent measurements 141 (1992) 155

Nighan Jr., W.L., see Fauchet, P.M. 141 (1992) 76

Nilsson, O., see Lu, X. 145 (1992) 207

Nishi, K., see Sumiyama, K. 150 (1992) 391

Nitta, S., see Vardeny, Z.V. 141 (1992) 66

Nóbrega, M.C.S., M.S. Zolotar, W.A. Mannheimer and A. Espínola, ZnO varistors produced using colloidal-gel powders 147&148 (1992) 803

Nofz, M., B. Himmel, T. Gerber and F. Ehrentreich, Structure of calcium-aluminosilicate glasses: wide-angle X-ray scattering and principal component analysis 143 (1992) 191

Nofz, M., R. Stösser, B. Unger and W. Herrmann, The function of paramagnetic iron species in amorphous materials formed by sol–gel method and conventional melting techniques 149 (1992) 62

Nogami, M. and K. Nagasaka, Oxidation of small-sized CdS crystals in sol–gel-derived glasses 147&148 (1992) 331

Noville, F., see Lecloux, A.J. 147&148 (1992) 389

Nukui, A., U. Shimizugawa, S. Inoue, H. Ozawa, R. Uno, K. Oosumi and A. Makishima, A structural study of Y_2O_3–Al_2O_3–SiO_2 glass employing partial RDFs obtained by anomalous scattering 150 (1992) 376

Oblasov, A.K., see Zhilinskaya, E.A. 146 (1992) 285

O'Brien, K.P., see Menon, N. 141 (1992) 61

Ocaña, M., D. Levy and C.J. Serna, Preparation and optical properties of spherical metal oxide particles containing fluorescent dyes 147&148 (1992) 621

Ogata, Y., see Uchino, T. 146 (1992) 26

Ogawa, H., K. Sugiyama, Y. Waseda and Y. Shiraishi, Structural study of molten pseudo-binary B_2O_3–$Na_2O \cdot 2SiO_2$ system by X-ray diffraction and molecular dynamics simulation 143 (1992) 201

Oguchi, T., I. Kanazawa, T. Iwashita, W.-H. Soe, A. Yamaguchi and R. Yamamoto, Solid state amorphization in Cu–Hf multilayers studied by time-differential perturbed-angular correlation 150 (1992) 448

Oh, K., T.F. Morse, L. Reinhart, A. Kilian and W.M. Risen Jr., Spectroscopic analysis of a Eu-doped aluminosilicate optical fiber preform 149 (1992) 229

Ohashi, M., see Shiraki, K. 149 (1992) 243

Ohishi, T., S. Maekawa and A. Katoh, Synthesis and properties of tantalum oxide films prepared by the sol–gel method using photoirradiation 147&148 (1992) 493

Ohno, H., see Umesaki, N. 150 (1992) 302

Ohno, S., see Aoki, A. 147&148 (1992) 720

Ohtsuka, A., see Sekiya, T. 144 (1992) 128

Ohtsuki, C., T. Kokubo and T. Yamamuro, Mechanism of apatite formation on CaO–SiO_2–P_2O_5 glasses in a simulated body fluid 143 (1992) 84

Okamoto, H., see Hattori, K. 141 (1992) 216

Okamura, K., see Suzuya, K. 150 (1992) 167

Okamura, K., see Suzuya, K. 150 (1992) 255

Okano, T., see Sei, T. 147&148 (1992) 711

O'Kelly, B., see McDonagh, C. 147&148 (1992) 97

Okumura, H., S.C. Ho, A. Inoue and T. Masumoto, Two glass transitions in mechanical relaxation of a $La_{55}Al_{25}Ni_{20}$ amorphous alloy 142 (1992) 165

Okumura, H., H.S. Chen, A. Inoue and T. Masumoto, The observation of two glass transitions in the dynamic mechanical properties of a $La_{55}Al_{25}Ni_{20}$ amorphous alloy 150 (1992) 401

Okumura, H., see Myung, W.-N. 150 (1992) 406

Okuno, M., H. Sugaya and T. Matsumoto, An EXAFS study of Ag_3AsS_3 glass 150 (1992) 356

Okushi, H., S. Yamasaki and K. Tanaka, Light-induced defects in

phosphorus-doped hydrogenated amorphous silicon 141 (1992) 176
Okuyama, M., T. Fukui and C. Sakurai, Effects of solvent and alkoxy group on powder precipitation of cordierite by complex-alkoxide hydrolysis 143 (1992) 112
Okuyama, M., T. Fukui and C. Sakurai, Effects of addition rate and pH of water on cordierite powder prepared by complex-alkoxide hydrolysis 144 (1992) 298
Olczak, T., see Deptuła, A. 147&148 (1992) 537
Olivares, J.L., see Di Giampaolo Conde, A.R. 147&148 (1992) 467
Olivier, B.J., see Schaefer, D.W. 145 (1992) 105
Oomen, E.W.J.L., see Bernards, T.N.M. 142 (1992) 215
Oomen, E.W.J.L., see Bernards, T.N.M. 147&148 (1992) 13
Oomen, E.W.J.L., see van Bommel, M.J. 147&148 (1992) 80
Oosumi, K., see Nukui, A. 150 (1992) 376
Opfermann, J., see Vogelsberger, W. 145 (1992) 20
Osaka, A., J. Qiu, T. Nanba, J. Takada, Y. Miura and T. Yao, EXAFS of tellurium in the glasses of the B_2O_3–TeO_2 system 142 (1992) 81
Ota, R., H. Kuribayashi, J. Fukunaga and T. Taguchi, Crystallization behavior of non-alkali glasses in the SiO_2–CaO–Al_2O_3–ZnO–TiO_2–B_2O_3 system 144 (1992) 81
Otón, J.M., see Levy, D. 147&148 (1992) 646
Ott, H.R., see Bernasconi, A. 145 (1992) 202
Ott, K., M. Dürrwächter, M.A. Haghani and D. Quitmann, Bond character in liquid alloys from magnetic susceptibility 142 (1992) 278
Ottolenghi, M., see Braun, S. 147&148 (1992) 739
Ottolenghi, M., see Iosefzon-Kuyavskaya, B. 147&148 (1992) 808
Ovchinnikova, O.G., see Danchevskaya, M.N. 149 (1992) 46
Ovshinsky, S.R., Optically induced phase changes in amorphous materials 141 (1992) 200
Oyoshi, K., see Hosono, H. 142 (1992) 287
Ozawa, H., see Nukui, A. 150 (1992) 376

Pajonk, G.M., see Ehrburger-Dolle, F. 145 (1992) 185
Pajonk, G.M., see Tleimat-Manzalji, R. 147&148 (1992) 744
Pakharukov, Y.V., see Achilov, M.F. 143 (1992) 246
Palladino, M., see Beghi, M. 145 (1992) 175
Palladino, M., F. Pirini, M. Beghi, P. Chiurlo, G. Cogliati and L. Costa, Sol–gel formation of silica–zirconia glasses 147&148 (1992) 335
Pantano, C.G., see Wang, D.S. 142 (1992) 225
Pantano, C.G., see Wang, D.S. 147&148 (1992) 115
Papiernik, R., L.G. Hubert-Pfalzgraf and F. Chaput, Molecular routes to ternary metal oxides: Pb:Ti heterometallic oxoisopropoxide as a precursor to $PbTiO_3$ 147&148 (1992) 36
Parker, J.M., see Hannon, A.C. 150 (1992) 97
Paschina, G., see Medda, M.P. 150 (1992) 76
Paschina, G., see Corrias, A. 150 (1992) 487
Patra, A. and D. Ganguli, Paramagnetic centers in unirradiated boron-doped silica gel 144 (1992) 111
Paul, W., S.J. Jones, W.A. Turner and P. Wickboldt, Structural properties of amorphous hydrogenated germanium 141 (1992) 271
Pauthe, M., see Woignier, T. 145 (1992) 25
Pauthe, M., see Quinson, J.F. 147&148 (1992) 699
Payen, E., see Ponthieu, E. 147&148 (1992) 598
Payen, E., see Etienne, E. 147&148 (1992) 764
Pedersen, J.S., see Posselt, D. 145 (1992) 128
Pekala, R.W., C.T. Alviso, F.M. Kong and S.S. Hulsey, Aerogels derived from multifunctional organic monomers 145 (1992) 90
Pelli, S., see Guglielmi, M. 147&148 (1992) 641
Pelous, J., M. Foret and R. Vacher, Colloidal vs. polymeric aerogels: structure and vibrational modes 145 (1992) 63
Pelous, J., see Foret, M. 145 (1992) 133
Pelous, J., see Chougrani, A. 145 (1992) 146
Pelous, J., see Foret, M. 147&148 (1992) 382
Pena, J.M.S., see Levy, D. 147&148 (1992) 646
Pernot, F., see Woignier, T. 147&148 (1992) 672
Perz, J.M., see Gaspari, F. 143 (1992) 241
Petrullat, J., S. Ray, U. Schubert, G. Guldner, C. Egger and B. Breitscheidel, Preparation and processing of metal–ceramic composite materials 147&148 (1992) 594
Pfleiderer, C., see Hitzler, H. 149 (1992) 107
Pfleiderer, C., see Leclerc, N. 149 (1992) 115
Phalippou, J., see Woignier, T. 145 (1992) 25
Phalippou, J., see Woignier, T. 147&148 (1992) 672
Phalippou, J., see Quinson, J.F. 147&148 (1992) 699
Pham Thi, M., see Granier, W. 147&148 (1992) 574
Philip, J., see Nandakumar, K. 144 (1992) 247
Philippot, E., see Daviero, S. 146 (1992) 279
Philippot, E., see Armand, P. 150 (1992) 371
Phillips, J.C., Tauc networks and Tauc edges: a review 141 (1992) 1

Phillips, N.J., M.L. Calzada and S.J. Milne, Sol–gel-derived lead titanate films 147&148 (1992) 285
Phor, J.S., see Malik, S.K. 142 (1992) 55
Piccaluga, G., see Ennas, G. 150 (1992) 65
Piccaluga, G., see Medda, M.P. 150 (1992) 76
Pichat, P., see Hoang-Van, C. 145 (1992) 250
Pierre, A., F. Duboudin, B. Tanguy and J. Portier, Sol–gel processing of TeO_2 powders 147&148 (1992) 569
Pimkhaokham, P., see Conradt, R. 145 (1992) 75
Piñero, M., M. Atik and J. Zarzycki, Cordierite–ZrO_2 and cordierite–Al_2O_3 composites obtained by sonocatalytic methods 147&148 (1992) 523
Pinna, G., see Ennas, G. 150 (1992) 65
Pirard, J.-P., see Lecloux, A.J. 147&148 (1992) 389
Pirini, F., see Palladino, M. 147&148 (1992) 335
Pirini, M.F., see Beghi, M. 145 (1992) 175
Plaia, J.R., see Mecholsky Jr., J.J. 146 (1992) 249
Pollard, W., Electronic and optical properties of amorphous $GeSe_2$ 144 (1992) 70
Pommier, B., see Hoang-Van, C. 145 (1992) 250
Ponthieu, E., E. Payen and J. Grimblot, Ultrafine alumina powders via a sol–emulsion–gel method 147&148 (1992) 598
Ponthieu, E., see Etienne, E. 147&148 (1992) 764
Poon, W., see Farok, H.M. 142 (1992) 175
Porcar, I., R. García, V. Soria, A. Campos and J.E. Figueruelo, Porous fractal gels: secondary effects in SEC 147&148 (1992) 170
Portier, J., see Rojo, J.M. 146 (1992) 50
Portier, J., see Pierre, A. 147&148 (1992) 569
Portsmouth, R.L., see Wright, A.C. 150 (1992) 69
Posselt, D., J.S. Pedersen and K. Mortensen, A SANS investigation on absolute scale of a homologous series of base-catalysed silica aerogels 145 (1992) 128
Posselt, D., see Bernasconi, A. 145 (1992) 202
Pradel, A., see Granier, W. 147&148 (1992) 574
Presecatan, R.T., S.H. Pulcinelli and C.V. Santilli, Drying of SnO_2 hydrogels: effect of the electrolyte 147&148 (1992) 340
Prevel, B., see Dupuy-Philon, J. 150 (1992) 275
Price, D.L., see Dejus, R.J. 143 (1992) 162
Price, D.L., see Saboungi, M.-L. 150 (1992) 260
Price, D.L., M.-L. Saboungi, S. Susman, K.J. Volin and A.C. Wright, Dynamics of vitreous and molten zinc chloride 150 (1992) 287
Puerta, M., see Di Giampaolo Conde, A.R. 147&148 (1992) 467
Pulcinelli, S.H., see Vollet, D.R. 142 (1992) 181
Pulcinelli, S.H., see Hiratsuka, R.S. 147&148 (1992) 67
Pulcinelli, S.H., see Ribeiro, S.J.L. 147&148 (1992) 162
Pulcinelli, S.H., see Presecatan, R.T. 147&148 (1992) 340

Qiao, G.W., see Chui, Z.J. 150 (1992) 440
Qiao, M.-y., see Meng, C. 144 (1992) 308
Qiu, J., see Osaka, A. 142 (1992) 81
Quan, M.X., see Wang, K.Y. 150 (1992) 456
Quan, M.X., see Shen, T.D. 150 (1992) 464
Quan, M.X., see Shen, T.D. 150 (1992) 468
Quinson, J.F., see Woignier, T. 145 (1992) 25
Quinson, J.F., see Dessalces, G. 147&148 (1992) 141
Quinson, J.F., see Larbot, A. 147&148 (1992) 157
Quinson, J.F., M. Pauthe, M. Lacroix, T. Woignier, J. Phalippou and H. Hdach, Silica alcogels prepared under neutral conditions: hypercritical treatment effect on textural and mechanical properties 147&148 (1992) 699
Quitmann, D., see Ott, K. 142 (1992) 278

Raether, F., see Heinrich, T. 145 (1992) 55
Raether, F., see Heinrich, T. 147&148 (1992) 152
Rafiq, M., see Larbot, A. 147&148 (1992) 74
Raj, P., P. Suryanarayana, A. Sathyamoorthy, K. Shashikala and R.M. Iyer, Hydrogen-induced amorphisation in the $Ce(Fe_{1-x}Al_x)_2$ system 146 (1992) 63
Ramírez-del-Solar, M., L. Esquivias, A.F. Craievich and J. Zarzycki, Ultrastructural evolution during gelation of TiO_2–SiO_2 sols 147&148 (1992) 206
Ramírez-del-Solar, M., see Blanco, E. 147&148 (1992) 238
Ramirez, M.A., see Gómez, R. 147&148 (1992) 748
Rao, A.S., B. Sreedhar, J.L. Rao and S.V.J. Lakshman, Electron paramagnetic resonance and optical absorption spectra of Mn^{2+} ions in alkali zinc borosulphate glasses 144 (1992) 169
Rao, J.L., see Rao, A.S. 144 (1992) 169
Raoux, D., see Udron, D. 150 (1992) 361
Raoux, D., see Ma, Q. 150 (1992) 366
Raoux, D., see Armand, P. 150 (1992) 371
Raoux, D., see Buffa, F. 150 (1992) 386
Rappoport, S., see Braun, S. 147&148 (1992) 739
Rauch, F., J.E. Ericson, W. Wagner, C. Grimm-Leimsner, R.P. Livi, C. Shi and T.A. Tombrello, Hydration of tektite glass 144 (1992) 224
Ray, S., see Petrullat, J. 147&148 (1992) 594
Re, N., Kinetics of bicomponent sol–gel processes 142 (1992) 1
Réau, J.M., see Rojo, J.M. 146 (1992) 50
Reichenauer, G., see Buchenau, U. 145 (1992) 121
Reichenauer, G., see Stumpf, C. 145 (1992) 180
Reinhart, L., see Oh, K. 149 (1992) 229
Rekhson, S.M., see Crichton, S.N. 142 (1992) 133

Rettelbach, T., see Hümmer, E. 145 (1992) 211
Reul, S., W. Richter and D. Haarer, Spectral hole burning in H_2Pc-doped SiO_2-aerogels 145 (1992) 149
Reymond, J.P., see Dessalces, G. 147&148 (1992) 141
Ribeiro, S.J.L., R.S. Hiratsuka, A.M.G. Massabni, M.R. Davolos, C.V. Santilli and S.H. Pulcinelli, Study of SnO_2 gels by Eu^{3+} fluorescence spectroscopy 147&148 (1992) 162
Richter, D., see Schaefer, D.W. 145 (1992) 105
Richter, W., see Reul, S. 145 (1992) 149
Riello, P., see Fagherazzi, G. 142 (1992) 63
Rigato, V., see Guglielmi, M. 147&148 (1992) 641
Righini, G.C., see Fagherazzi, G. 142 (1992) 63
Righini, G.C., see Guglielmi, M. 147&148 (1992) 641
Ring, T.A., see Chang, S.Y. 147&148 (1992) 56
Risen Jr., W.M., see Oh, K. 149 (1992) 229
Riveiro, J.M., see Fedosyuk, V.M. 143 (1992) 153
Robinson, R.A., see Suck, J.-B. 150 (1992) 245
Rocca, F., see Červinka, L. 150 (1992) 140
Rodrigues, P.A.M., P. Benassi and A. Fontana, Low frequency light scattering on $(AgI)_x(AgPO_3)_{1-x}$ superionic glasses 143 (1992) 274
Rodríguez-Izquierdo, J.M., see Cauqui, M.A. 147&148 (1992) 724
Rodríguez-Izquierdo, J.M., see Cauqui, M.A. 147&148 (1992) 758
Rodriguez, S., see Carda, J. 147&148 (1992) 303
Rojas, F., see Mayagoitia, V. 147&148 (1992) 183
Rojo, J.M., P. Herrero, J. Sanz, B. Tanguy, J. Portier and J.M. Réau, Relationship between microstructure and ionic conduction properties in oxyfluoride tellurite glass-ceramics 146 (1992) 50
Rosato, V. and F. Cleri, A molecular dynamics simulation of the effects of excess free volume on the diffusion in metallic glasses 144 (1992) 187
Rosenkranz, J., see Schwarz, W. 145 (1992) 244
Rouanet, S., see Moses, J.M. 145 (1992) 41
Roux, H., see Bahtat, M. 147&148 (1992) 123
Rückmann, I., see Müller, M.P.A. 144 (1992) 240
Rudakoff, G., see Vogelsberger, W. 145 (1992) 20
Rudakoff, G., see Fink, P. 145 (1992) 99
Rudenko, V.S., see Trukhin, A.N. 149 (1992) 96
Ruiz, H., see Di Giampaolo Conde, A.R. 147&148 (1992) 467
Ruppersberg, H., see Görlitz, C. 150 (1992) 419
Ruppersberg, H., see Görlitz, C. 150 (1992) 460
Rüssel, C., see Geyer, V. 149 (1992) 196
Russell-Floyd, R.S., see Laurie, J. 147&148 (1992) 320
Saboungi, M.-L. and D.L. Price, A novel phase transition in alloys 150 (1992) 260
Saboungi, M.-L., see Price, D.L. 150 (1992) 287
Sadikov, I.P., see Sváb, E. 144 (1992) 99
Saeed, A., see Gaskell, P.H. 150 (1992) 126
Saiko, D.S., see Scripnikov, V.A. 146 (1992) 90
Sakaguchi, Y., see Hosokawa, S. 150 (1992) 35
Sakakibara, A., see Hida, M. 144 (1992) 196
Sakka, S. and T. Yoko, Fibers from gels 147&148 (1992) 394
Sakka, S., see Miyaji, F. 150 (1992) 107
Sakka, S., see Yoko, T. 150 (1992) 192
Sakka, T., see Uchino, T. 146 (1992) 26
Sakurai, C., see Okuyama, M. 143 (1992) 112
Sakurai, C., see Okuyama, M. 144 (1992) 298
Sakurai, M., see Sumiyama, K. 150 (1992) 391
Salajka, Z., see Kratochvíla, J. 143 (1992) 14
Sales, M., see Monrós, G. 147&148 (1992) 588
Sanchez, C., see Livage, J. 145 (1992) 11
Sanchez, C. and M. In, Molecular design of alkoxide precursors for the synthesis of hybrid organic–inorganic gels 147&148 (1992) 1
Sanchez, C., see Kallala, M. 147&148 (1992) 189
Sanchez-Soto, P.J., see Macias, M. 147&148 (1992) 262
Sansores, L.E., R.M. Valladares, J.A. Cogordan and A.A. Valladares, Amorphous clusters. I. Electronic structure of Si clusters with N, P and As dopants 143 (1992) 232
Sansores, L.E., R.M. Valladares and A.A. Valladares, Amorphous clusters. II. Electronic structure of Ge clusters with N, P, and As impurities 144 (1992) 115
Santilli, C.V., see Vollet, D.R. 142 (1992) 181
Santilli, C.V., see Hiratsuka, R.S. 147&148 (1992) 67
Santilli, C.V., see Ribeiro, S.J.L. 147&148 (1992) 162
Santilli, C.V., see Presecatan, R.T. 147&148 (1992) 340
Sanz, J., see Rojo, J.M. 146 (1992) 50
Sathyamoorthy, A., see Raj, P. 146 (1992) 63
Sato, R., see Komatsu, T. 146 (1992) 240
Sato, R.K., R.J. Kirkpatrick and R.K. Brow, Structure of Li,Na metaphosphate glasses by ^{31}P and ^{23}Na MAS-NMR correlated with the mixed alkali effect 143 (1992) 257
Sato, S., see Sugahara, Y. 147&148 (1992) 24
Satoh, S., see Susa, K. 146 (1992) 81
Satoh, S., K. Susa and I. Matsuyama, Sol–gel-derived binary silica glasses with high refractive index 146 (1992) 121
Saunders, G.A., see Farok, H.M. 142 (1992) 175
Saunders, G.A., see Wang, Q. 143 (1992) 65
Sauvajol, J.L., see Chougrani, A. 145 (1992) 146
Sayers, D.E., see Nasu, T. 150 (1992) 491
Sazonov, A.Y., see Aivazov, A.A. 146 (1992) 190

Schaefer, D.W., B.J. Olivier, C.S. Ashley, D. Richter, B. Farago, B. Frick, L. Hrubesh, M.J. van Bommel, G. Long and S. Krueger, Structure and topology of silica aerogels 145 (1992) 105
Schaefer, M.R., see Minehan, W.T. 147&148 (1992) 582
Schäfer, W., see Schwarz, W. 145 (1992) 244
Scherer, G.W., Bending of gel beams: method for characterizing elastic properties and permeability 142 (1992) 18
Scherer, G.W., Crack-tip stress in gels 144 (1992) 210
Scherer, G.W., Stress development during supercritical drying 145 (1992) 33
Scherer, G.W., Recent progress in drying of gels 147&148 (1992) 363
Scherer, G.W., see Woignier, T. 147&148 (1992) 672
Scheuerpflug, P., M. Hauck and J. Fricke, Thermal properties of silica aerogels between 1.4 and 330 K 145 (1992) 196
Schiff, E.A., see Devlen, R.I. 141 (1992) 106
Schiff, G., see Schwarz, W. 145 (1992) 244
Schifter, I., see Gómez, R. 147&148 (1992) 748
Schirmacher, W., see Wagener, M. 145 (1992) 136
Schlaepfer, C.W., see Klonkowski, A.M. 149 (1992) 189
Schlief, T., J. Gross and J. Fricke, Ultrasonic attenuation in silica aerogels 145 (1992) 223
Schmidt, H., see Mennig, M. 147&148 (1992) 326
Schmidt, H., see Krug, H. 147&148 (1992) 447
Schmidt, H., see Spanhel, L. 147&148 (1992) 657
Schmutz, C., see Livage, J. 147&148 (1992) 18
Schnabel, B., see Losso, P. 143 (1992) 265
Schraml-Marth, M., K.L. Walther, A. Wokaun, B.E. Handy and A. Baiker, Porous silica gels and TiO_2/SiO_2 mixed oxides prepared via the sol–gel process: characterization by spectroscopic techniques 143 (1992) 93
Schubert, U., see Schwertfeger, F. 145 (1992) 85
Schubert, U., see Petrullat, J. 147&148 (1992) 594
Schulze, H., see Vogelsberger, W. 145 (1992) 20
Schunk, P.R., see Brinker, C.J. 147&148 (1992) 424
Schütt, H.J. and E. Gerdes, Space-charge relaxation in ionicly conducting oxide glasses. I. Model and frequency response 144 (1992) 1
Schütt, H.J. and E. Gerdes, Space-charge relaxation in ionicly conducting glasses. II. Free carrier concentration and mobility 144 (1992) 14
Schwarz, W., V. Ebert, H. Geerds, K. Jungmann, S. Kirches, S. Koppe, F. Maas, H.-J. Mundinger, G. zu Putlitz, J. Rosenkranz, W. Schäfer, G. Schiff, Z. Zhang, M.G. Boshier and V.W. Hughes, Thermal muonium in vacuo from silica aerogels 145 (1992) 244
Schwertfeger, F., W. Glaubitt and U. Schubert, Hydrophobic aerogels from $Si(OMe)_4/MeSi(OMe)_3$ mixtures 145 (1992) 85
Scripnikov, V.A. and D.S. Saiko, Coherent tunneling states in glasses 146 (1992) 90
Sedlar, M., see Kubeckova, M. 147&148 (1992) 404
Sei, T., see Tsuchiya, T. 147&148 (1992) 463
Sei, T., T. Okano and T. Tsuchiya, High temperature superconducting BSCCO thin film from sol–gel process and properties 147&148 (1992) 711
Sekiya, T., N. Mochida, A. Ohtsuka and M. Tonokawa, Raman spectra of $MO_{1/2}$–TeO_2 (M = Li, Na, K, Rb, Cs and Tl) glasses 144 (1992) 128
Semak, D.G., see Luksha, O.V. 144 (1992) 253
Sempéré, R., see Soufyani, M. 145 (1992) 60
Sempéré, R., see Sivade, A. 147&148 (1992) 167
Sempéré, R., D. Bourret, A. Sivade, P. Etienne and J. Bouaziz, SiO_2–Nb_2O_5 thin films using sol–gel technology 147&148 (1992) 499
Senin, H.B., see Wang, Q. 143 (1992) 65
Senna, M., see Isobe, T. 150 (1992) 144
Sergeyev, P.B., see Barabanov, V.S. 149 (1992) 102
Serna, C.J., see Ocaña, M. 147&148 (1992) 621
Serna, C.J., see Levy, D. 147&148 (1992) 646
Serughetti, J., see Bahtat, M. 147&148 (1992) 123
Serughetti, J., see Dahmouche, K. 147&148 (1992) 251
Seykens, D., see Kloprogge, J.T. 142 (1992) 87
Seykens, D., see Kloprogge, J.T. 142 (1992) 94
Seykens, D., see van Beek, J.J. 146 (1992) 111
Sglavo, V.M., see Brenna, U. 147&148 (1992) 695
Shaltout, I.I., see Bahgat, A.A. 150 (1992) 179
Shang, C.H., see Liu, B.X. 150 (1992) 332
Shao, Z.-j., see Meng, C. 144 (1992) 308
Shashikala, K., see Raj, P. 146 (1992) 63
Shelby, J.E. and E.A. Bolden, Formation and properties of lead fluorogermanate glasses 142 (1992) 269
Shelby, J.E., see Tuzzolo, M.R. 143 (1992) 181
Shen, T.D., see Wang, K.Y. 150 (1992) 456
Shen, T.D., J.T. Wang, M.X. Quan and W.D. Wei, Amorphization induced by mechanical alloying and cold rolling 150 (1992) 464
Shen, T.D., K.Y. Wang, J.T. Wang, M.X. Quan and W.D. Wei, Preparation and reactivities of composite nanocrystalline solids prepared by mechanical alloying 150 (1992) 468

Sheng, G., L. Chu, W.A. Zeltner and M.A. Anderson, Nanoparticulate alumina, silica and aluminosilicate membranes 147&148 (1992) 548

Shepilov, M.P., Calculation of kinetics of metastable liquid–liquid phase separation for the model with simultaneous nucleation of particles 146 (1992) 1

Shi, C., see Rauch, F. 144 (1992) 224

Shibata, K., H. Mizuseki, J.L. Finney and K. Suzuki, Correlated atomic motions in $Pd_{79}Si_{21}$ alloy glass observed by inelastic pulsed neutron scattering 150 (1992) 251

Shibata, K., see Suzuya, K. 150 (1992) 255

Shibata, K., see Kamiyama, T. 150 (1992) 292

Shiga, M., see Sumiyama, K. 150 (1992) 391

Shimada, T., see Muramatsu, S. 150 (1992) 163

Shimizugawa, U., see Nukui, A. 150 (1992) 376

Shimomura, O., see Yaoita, K. 150 (1992) 25

Shiraishi, Y., see Ogawa, H. 143 (1992) 201

Shiraki, K. and M. Ohashi, Optical properties of sodium alminosilicate glass 149 (1992) 243

Shtelzer, S., see Braun, S. 147&148 (1992) 739

Silin, A.R. and L.A. Lace, Influence of stoichiometry on high temperature intrinsic defects in fused silica 149 (1992) 54

Silva, D.V., see Hiratsuka, R.S. 147&148 (1992) 67

Silver, M., see Kemp, M. 141 (1992) 88

Simon, S., see Ardelean, I. 146 (1992) 256

Sinclair, R.N., see Wright, A.C. 150 (1992) 69

Sinclair, R.N., A.C. Wright, T.M. Brunier, R.A. Hulme, C.A. Guy, A.C. Hannon and M. Arai, Inelastic neutron scattering studies of amorphous network solids 150 (1992) 219

Sinclair, R.N., see Hannon, A.C. 150 (1992) 239

Singh, A., S.C. Bayliss, S.J. Gurman and E.A. Davis, The amorphous $SiO_x:H_y$ thin film system. III. Structure and bonding 142 (1992) 113

Šípek, E., see Kočka, J. 141 (1992) 133

Sivade, A., see Soufyani, M. 145 (1992) 60

Sivade, A., see Bouaziz, J. 145 (1992) 71

Sivade, A., D. Bourret, R. Sempéré and J. Bouaziz, ^1H NMR studies of tetramethylorthosilicate (TMOS) alcoholysis by isopropyl alcohol 147&148 (1992) 167

Sivade, A., see Sempéré, R. 147&148 (1992) 499

Sivia, D.S., see Suck, J.-B. 150 (1992) 245

Skuja, L., Isoelectronic series of twofold coordinated Si, Ge, and Sn atoms in glassy SiO_2: a luminescence study 149 (1992) 77

Skuja, L.N., see Trukhin, A.N. 149 (1992) 96

Sleator, T., see Bernasconi, A. 145 (1992) 202

Smirnov, V.N., see Danchevskaya, M.N. 149 (1992) 46

Smith, D.M., see Davis, P.J. 142 (1992) 189

Smith, D.M., see Davis, P.J. 142 (1992) 197

Smith, D.M., see Deshpande, R. 144 (1992) 32

Smith, D.M., see Fahrenholtz, W.G. 144 (1992) 45

Smith, D.O., see Losso, P. 143 (1992) 265

Sodolski, H., P. Mondalski, J. Godlewski and J. Kalinowski, Electrical conductivity of dry silica gel under high pressure 147&148 (1992) 663

Soe, W.-H., see Oguchi, T. 150 (1992) 448

Soga, N., see Nakanishi, K. 142 (1992) 36

Soga, N., see Nakanishi, K. 142 (1992) 45

Soga, N., see Tanabe, S. 142 (1992) 148

Soga, N., see Hirao, K. 143 (1992) 40

Soga, N., see Todoroki, S. 143 (1992) 46

Soga, N., see Kaji, H. 145 (1992) 80

Soga, N., see Nakanishi, K. 147&148 (1992) 291

Sokolov, V.O., see Dianov, E.M. 149 (1992) 5

Sorarù, G.D., see Brenna, U. 147&148 (1992) 695

Soria, V., see Porcar, I. 147&148 (1992) 170

Soufyani, M., D. Bourret, A. Sivade and R. Sempéré, Mixed silica–iron oxide aerogels 145 (1992) 60

Souquet, J.L., see Montani, R.A. 149 (1992) 249

Spanhel, J., see Mennig, M. 147&148 (1992) 326

Spanhel, L., E. Arpac and H. Schmidt, Semiconductor clusters in the sol–gel process: synthesis and properties of CdS nanocomposites 147&148 (1992) 657

Spormann, O., see Damrau, U. 145 (1992) 164

Sreedhar, B., see Rao, A.S. 144 (1992) 169

Srivastava, S.K. and M. Khare, Phonon spectrum of binary ions 150 (1992) 216

Stachel, D., see Losso, P. 143 (1992) 265

Stergioudis, G.A., Decomposition and partial amorphization of bis(trifluoroacetato)(phenyl)iodine(III), C_{10}-$H_5F_6IO_4$, by X-ray irradiation 144 (1992) 95

Sternberg, U., see Losso, P. 143 (1992) 265

Stösser, R., see Nofz, M. 149 (1992) 62

Street, R.A. and C.C. Tsai, Time-of-flight measurements of thermally induced defects in a-Si:H 141 (1992) 162

Strope, D.H., see Mukherjee, S.P. 147&148 (1992) 783

Stryahilev, D.A., see Aivazov, A.A. 146 (1992) 190

Stumpf, C., K. von Gässler, G. Reichenauer and J. Fricke, Dynamic gas flow measurements on aerogels 145 (1992) 180

Stutzmann, M. and M.S. Brandt, Excitonic states in hydrogenated amorphous silicon 141 (1992) 97

Suck, J.-B., Experimental investigation of the atomic dynamics of amorphous and icosahedral alloys 150 (1992) 231

Suck, J.-B., P.A. Egelstaff, R.A. Robinson, D.S. Sivia and A.D. Taylor, Neutron Brillouin scattering in a metallic glass 150 (1992) 245
Sudoh, K., see Hirashima, H. 145 (1992) 51
Sudoh, K. and H. Hirashima, Preparation and physical properties of V_2O_5 aerogel 147&148 (1992) 386
Sugahara, Y., S. Sato, K. Kuroda and C. Kato, Polysiloxane formation from a tetraethoxysilane–ethyl alcohol–oxalic acid system 147&148 (1992) 24
Sugaya, H., see Okuno, M. 150 (1992) 356
Sugiura, H. and T. Yamadaya, Raman scattering in silica glass in the permanent densification region 144 (1992) 151
Sugiyama, K., see Ogawa, H. 143 (1992) 201
Sulimov, V.B., see Dianov, E.M. 149 (1992) 5
Sulpice, A., see Barboux, P. 147&148 (1992) 704
Sumiyama, K., K. Nishi, M. Shiga, M. Sakurai and K. Suzuki, The amorphous structure of immiscible Fe–Cu–Ag alloys 150 (1992) 391
Sun, L., see Chui, Z.J. 150 (1992) 440
Suryanarayana, D., see Mukherjee, S.P. 147&148 (1992) 783
Suryanarayana, P., see Raj, P. 146 (1992) 63
Susa, K., I. Matsuyama and S. Satoh, Preparation of D_2O-treated sol–gel silica preform and OD absorption bands at IR and near-IR region 146 (1992) 81
Susa, K., see Satoh, S. 146 (1992) 121
Susman, S., see Dejus, R.J. 143 (1992) 162
Susman, S., see Price, D.L. 150 (1992) 287
Suzuki, K., see Dai, Y. 142 (1992) 159
Suzuki, K., see Fukunaga, T. 150 (1992) 10
Suzuki, K., see Fukunaga, T. 150 (1992) 15
Suzuki, K., see Kakinuma, F. 150 (1992) 53
Suzuki, K., see Kamiyama, T. 150 (1992) 157
Suzuki, K., see Muramatsu, S. 150 (1992) 163
Suzuki, K., see Suzuya, K. 150 (1992) 167
Suzuki, K., see Kamiyama, T. 150 (1992) 172
Suzuki, K., see Shibata, K. 150 (1992) 251
Suzuki, K., see Suzuya, K. 150 (1992) 255
Suzuki, K., see Kamiyama, T. 150 (1992) 292
Suzuki, K., see Sumiyama, K. 150 (1992) 391
Suzuki, K., see El-Eskandarany, M.S. 150 (1992) 472
Suzuki, M. and Y. Taga, Optical anisotropy and columnar structure of obliquely deposited thin films containing fine metal particles 150 (1992) 148
Suzuki, S., see Dai, Y. 142 (1992) 159
Suzuki, Y., see Hosono, H. 142 (1992) 287
Suzuya, K., T. Kamiyama, T. Yamamura, K. Okamura and K. Suzuki, A SAXS study of the nanometer scale hybrid structure of Si–Ti–C–O amorphous fibers 150 (1992) 167
Suzuya, K., K. Shibata, K. Okamura and K. Suzuki, The polycarbosilane-to-Si_xC_{1-x} conversion studied by inelastic neutron scattering and infrared absorption 150 (1992) 255
Sváb, E., G. Mészáros, J. Takács, S.N. Ishmaev, S.L. Isakov and I.P. Sadikov, Partial correlations in Ni–Nb amorphous alloys 144 (1992) 99
Svendsen, S., Solar collector with monolithic silica aerogel 145 (1992) 240
Szu, S., A.M. Buckley, M. Greenblatt and L.C. Klein, The effect of heat treatment time on lithium-containing Al_2O_3–SiO_2 gels: a study by ^{7}Li NMR 146 (1992) 129
Szu, S.-P., L.C. Klein and M. Greenblatt, Effect of precursors on the structure of phosphosilicate gels: ^{29}Si and ^{31}P MAS–NMR study 143 (1992) 21
Szu, S.-P., see Wakamatsu, H. 147&148 (1992) 668

Tadanaga, K., see Yoko, T. 150 (1992) 192
Taga, Y., see Suzuki, M. 150 (1992) 148
Taguchi, T., see Ota, R. 144 (1992) 81
Takács, J., see Sváb, E. 144 (1992) 99
Takada, J., see Osaka, A. 142 (1992) 81
Takada, T., T. Yano, A. Yasumori, M. Yamane and J.D. Mackenzie, Preparation of quantum-size CdS-doped Na_2O–B_2O_3–SiO_2 glasses with high non-linearity 147&148 (1992) 631
Takahashi, M., H. Toyuki, N. Umesaki, K. Kawamura, M. Tatsumisago and T. Minami, Molecular dynamics simulation of the mixed anion glasses Li_4SiO_4–Li_3BO_3 150 (1992) 103
Takahashi, R., see Nakanishi, K. 147&148 (1992) 291
Takahashi, Y. and H. Hayashi, Aminoalkoxide sol–gel coating of transition metal oxide films 147&148 (1992) 346
Takayama, S., see Tanaka, H. 150 (1992) 21
Takemoto, Y., see Hida, M. 144 (1992) 196
Tamoto, N., see Komatsu, T. 146 (1992) 240
Tamura, K. and S. Hosokawa, X-ray diffraction measurements for expanded fluid mercury up to the supercritical region 150 (1992) 29
Tamura, K., see Hosokawa, S. 150 (1992) 35
Tamura, K., see Hosokawa, S. 150 (1992) 40
Tamura, K., S. Hosokawa, M. Inui, M. Yao, H. Endo and H. Hoshino, EXAFS measurements for liquid As_2Se_3 at high temperatures and pressures 150 (1992) 351

Tamura, T., see Matsubara, E. 150 (1992) 380

Tanabe, S., K. Hirao and N. Soga, Local structure of rare-earth ions in fluorophosphate glasses by phonon sideband and Mössbauer spectroscopy 142 (1992) 148

Tanaka, H., see Izumi, K. 147&148 (1992) 483

Tanaka, H., Y. Kato and S. Takayama, Anisotropic atomic structure of Tb–Fe and Tb–Co amorphous alloys 150 (1992) 21

Tanaka, H., see Kinugawa, K. 150 (1992) 281

Tanaka, K., see Okushi, H. 141 (1992) 176

Tanaka, K., Pressure-induced structural transformations in amorphous semiconductors 150 (1992) 44

Tanaka, S., see Hosono, H. 142 (1992) 287

Tang, Y., see Jiang, Z. 146 (1992) 57

Tang, Z.R., see McDonagh, C. 147&148 (1992) 97

Tanguy, B., see Rojo, J.M. 146 (1992) 50

Tanguy, B., see Pierre, A. 147&148 (1992) 569

Tappert, W., see Heinrich, T. 145 (1992) 55

Tatsumisago, M., see Takahashi, M. 150 (1992) 103

Tatsumisago, M., Y. Kowada and T. Minami, Raman spectra of rapidly quenched glasses and melts containing large amounts of Li_2O 150 (1992) 207

Tatsumisago, M., see Kowada, Y. 150 (1992) 318

Taulelle, F., see Livage, J. 147&148 (1992) 18

Taylor, A.D., see Suck, J.-B. 150 (1992) 245

Taylor, D.J. and B.D. Fabes, Laser processing of sol–gel coatings 147&148 (1992) 457

Taylor, P.C., see Hautala, J. 141 (1992) 24

Tena, M.A., see Carda, J. 147&148 (1992) 303

Tena, M.A., see Monrós, G. 147&148 (1992) 588

Teowee, G., see Uhlmann, D.R. 147&148 (1992) 409

Teowee, G., J.M. Boulton, W.M. Bommersbach and D.R. Uhlmann, Second harmonic generation from $PbTiO_3$-based ferroelectric thin films 147&148 (1992) 799

Theiss, W., see Hornfeck, M. 145 (1992) 154

Theiss, W., see Hövel, H. 145 (1992) 159

Thèye, M.-L., see Udron, D. 150 (1992) 361

Thomas, P., see Göbel, E.O. 141 (1992) 35

Thomas, S., see Leclerc, N. 149 (1992) 115

Thomsen, C. and E. Bustarret, Transverse acoustic phonons in amorphous silicon 141 (1992) 265

Tillotson, T.M. and L.W. Hrubesh, Transparent ultralow-density silica aerogels prepared by a two-step sol–gel process 145 (1992) 44

Titov, S.A., Electronic structure of point defects in SiO_2, NaCl and diamond: cluster model with features of molecular cluster and cyclic models 149 (1992) 19

Tleimat-Manzalji, R., T. Manzalji and G.M. Pajonk, Aerogels and xerogels for catalytic applications 147&148 (1992) 744

Todoroki, S., see Hirao, K. 143 (1992) 40

Todoroki, S., K. Hirao and N. Soga, Local structure around rare-earth ions in indium- and lead-based fluoride glasses with high upconversion efficiency 143 (1992) 46

Tohge, N., see Izumi, K. 147&148 (1992) 483

Tohge, N., M. Asuka and T. Minami, Sol–gel preparation and optical properties of silica glasses containing Cd and Zn chalcogenide microcrystals 147&148 (1992) 652

Tokumitsu, K., Amorphous metal–hydrogen alloys prepared by mechano-chemical reaction 150 (1992) 452

Tombrello, T.A., see Rauch, F. 144 (1992) 224

Tomozawa, M., Book Review: Corrosion of glass, ceramics and ceramic superconductors: principles, testing, characterization and applications (David E. Clark and Bruce K. Zoitos, eds.) 149 (1992) 282

Tong, H.Y., J.T. Wang, B.Z. Ding, H.G. Jiang and K. Lu, The structure and properties of nanocrystalline $Fe_{78}B_{13}Si_9$ alloy 150 (1992) 444

Tonokawa, M., see Sekiya, T. 144 (1992) 128

Tonooka, K., N. Kamata, K. Yamada, K. Matsumoto and F. Maruyama, An estimation of the distribution functions of doped Tb^{3+} and Nd^{3+} in glasses by fluorescence measurements 150 (1992) 185

Tournier, R., see Barboux, P. 147&148 (1992) 704

Toyuki, H., see Takahashi, M. 150 (1992) 103

Tran, M.Q., see Fritzsche, H. 141 (1992) 123

Třiska, A., see Nesládek, M. 141 (1992) 155

Trukhin, A.N., Excitons in SiO_2: a review 149 (1992) 32

Trukhin, A.N., L.N. Skuja, A.G. Boganov and V.S. Rudenko, The correlation of the 7.6 eV optical absorption band in pure fused silicon dioxide with twofold-coordinated silicon 149 (1992) 96

Trunilina, O.V., see Achilov, M.F. 143 (1992) 246

Tsai, A.P., Y. Yokoyama, A. Inoue and T. Masumoto, Chemically driven structural change in quasicrystalline Al–Pd–Mn alloys 150 (1992) 327

Tsai, C.C., see Street, R.A. 141 (1992) 162

Tsuchiya, T., T. Sei and H. Kanda, Sol–gel preparation of YIG ($Y_3Fe_5O_{12}$) thin film showing opto-magnetic effect 147&148 (1992) 463
Tsuchiya, T., see Sei, T. 147&148 (1992) 711
Tsuji, K., see Yaoita, K. 150 (1992) 25
Tsuji, K., see Imai, M. 150 (1992) 49
Tsukada, T., see Kaneko, Y. 149 (1992) 264
Tsutsui, K., see Kaneko, Y. 149 (1992) 264
Tuchida, K., see Abe, Y. 147&148 (1992) 47
Turek, I., see Hafner, J. 150 (1992) 307
Turner, W.A., see Paul, W. 141 (1992) 271
Tuzzolo, M.R. and J.E. Shelby, Hydrogen-induced formation of colloids of arsenic, antimony, and bismuth in oxide glasses 143 (1992) 181

Uchida, T., see Doyama, M. 150 (1992) 429
Uchida, Y., see Izumi, K. 147&148 (1992) 483
Uchino, T., T. Sakka, Y. Ogata and M. Iwasaki, A new model of ionic transport for single- and mixed-alkali oxide glasses based on ab initio molecular orbital calculations 146 (1992) 26
Udron, D., A.-M. Flank, P. Lagarde, D. Raoux and M.-L. Thèye, Local atomic order in amorphous III–V semiconductors by EXAFS and X-ray anomalous scattering 150 (1992) 361
Uhlmann, D.R., G. Teowee, J.M. Boulton, S. Motakef and S.C. Lee, Electrical and optical properties of chemically derived ferroelectric films 147&148 (1992) 409
Uhlmann, D.R., see Teowee, G. 147&148 (1992) 799
Umesaki, N., see Takahashi, M. 150 (1992) 103
Umesaki, N., N. Hirosaki and K. Hirao, Structural characterization of amorphous silicon nitride by molecular dynamics simulation 150 (1992) 120
Umesaki, N., H. Ohno, K. Igarashi and K. Furukawa, A computer simulation study of the structural similarities between fluoroberyllate and alkaline earth silicate melts 150 (1992) 302
Unger, B., see Nofz, M. 149 (1992) 62
Uno, R., see Nukui, A. 150 (1992) 376
Unold, T., see Cohen, J.D. 141 (1992) 142

Vacher, R., see Pelous, J. 145 (1992) 63
Vacher, R., see Foret, M. 145 (1992) 133
Vacher, R., see Chougrani, A. 145 (1992) 146
Vacher, R., see Foret, M. 147&148 (1992) 382
Valeev, N.K., see Zhilinskaya, E.A. 146 (1992) 285
Valla, B., see Macêdo, M.A. 147&148 (1992) 792
Valladares, A.A., see Sansores, L.E. 143 (1992) 232
Valladares, A.A., see Sansores, L.E. 144 (1992) 115
Valladares, R.M., see Sansores, L.E. 143 (1992) 232
Valladares, R.M., see Sansores, L.E. 144 (1992) 115
van Beek, J.J., D. Seykens and J.B.H. Jansen, ^{29}Si NMR monitoring and kinetic modelling of an acid-catalyzed TMOS sol–gel system with molar $H_2O/Si = 8$ 146 (1992) 111
van Blaaderen, A. and A.P.M. Kentgens, Particle morphology and chemical microstructure of colloidal silica spheres made from alkoxysilanes 149 (1992) 161
van Bommel, M.J., see Bernards, T.N.M. 142 (1992) 215
van Bommel, M.J., see Schaefer, D.W. 145 (1992) 105
van Bommel, M.J., see Bernards, T.N.M. 147&148 (1992) 13
van Bommel, M.J., T.N.M. Bernards, E.W.J.L. Oomen and A.H. Boonstra, The influence of cross-linking on gel formation 147&148 (1992) 80
Vandenborre, M.T., see Livage, J. 147&148 (1992) 18
Vanderhaghen, R., see Fauchet, P.M. 141 (1992) 76
van Wüllen, L., see Jäger, C. 149 (1992) 209
Vardeny, Z.V., X. Wei, B.C. Hess, S.G. Han and S. Nitta, Studies of photocarrier relaxation processes in polysilane alloys from subpicosecond to metastability 141 (1992) 66
Vass, H., see Farok, H.M. 142 (1992) 175
Vendange, V., see Colomban, P. 147&148 (1992) 245
Venkatesh, R., see Gopala Rao, R.V. 146 (1992) 294
Verhoef, A.H. and H.W. den Hartog, A molecular dynamics study of B_2O_3 glass using different interaction potentials 146 (1992) 267
Vessal, B., see Hannon, A.C. 150 (1992) 97
Vesteghem, H., A. Lecomte and A. Dauger, Film formation and sintering of colloidal monoclinic zirconia 147&148 (1992) 503
Vesteghem, H., see Guinebretière, R. 147&148 (1992) 542
Vincent, H., see Janot, C. 150 (1992) 322
Vioux, A., see Belot, V. 144 (1992) 287
Vioux, A., see Corriu, R.J.P. 146 (1992) 301
Vioux, A., see Belot, V. 147&148 (1992) 52
Vioux, A., see Belot, V. 147&148 (1992) 309
Vogel, E.M., see Farrow, L.A. 143 (1992) 59
Vogelsberger, W., J. Opfermann, U. Wank, H. Schulze and G. Rudakoff, A model for viscosity in the early stages of the sol–gel transformation 145 (1992) 20
Volin, K.J., see Dejus, R.J. 143 (1992) 162
Volin, K.J., see Price, D.L. 150 (1992) 287

Vollet, D.R., R.S. Hiratsuka, S.H. Pulcinelli, C.V. Santilli and A.F. Craievich, Structural characterization of a tin oxyhydroxide gel and its precursor sol 142 (1992) 181
von Gässler, K., see Stumpf, C. 145 (1992) 180

Wada, M., K. Kamiya, H. Nasu, J. Matsuoka, T. Yoko, T. Fukunaga and M. Misawa, Structure analysis of sol–gel-derived SiO_2 gels by neutron diffraction 149 (1992) 203
Waerenborgh, J.C., see Ferreira da Silva, M.G. 147&148 (1992) 146
Wagener, M. and W. Schirmacher, Effective medium approximation for vibrational excitations in disordered solids 145 (1992) 136
Wagner, C.N.J., Diffraction studies of the structure of amorphous and nanocrystalline metals and alloys: a review 150 (1992) 1
Wagner, C.N.J., see Boldrick, M.S. 150 (1992) 478
Wagner, S., see Isomura, M. 141 (1992) 204
Wagner, W., see Rauch, F. 144 (1992) 224
Wakamatsu, H., S.-P. Szu, L.C. Klein and M. Greenblatt, Effect of lithium salts on the ionic conductivity of lithium silicate gels 147&148 (1992) 668
Wallenberger, F.T., N.E. Weston and S.D. Brown, Infrared optical tellurite glass fibers 144 (1992) 107
Walther, K.L., see Schraml-Marth, M. 143 (1992) 93
Walz, D., see Langlet, M. 147&148 (1992) 488
Wang, D.S. and C.G. Pantano, Structural characterization of $CaO–B_2O_3–Al_2O_3–SiO_2$ xerogels and glasses 142 (1992) 225
Wang, D.S. and C.G. Pantano, Surface chemistry of multicomponent silicate gels 147&148 (1992) 115
Wang, J.T., see Chui, Z.J. 150 (1992) 440
Wang, J.T., see Tong, H.Y. 150 (1992) 444
Wang, J.T., see Wang, K.Y. 150 (1992) 456
Wang, J.T., see Shen, T.D. 150 (1992) 464
Wang, J.T., see Shen, T.D. 150 (1992) 468
Wang, K.Y., see Chui, Z.J. 150 (1992) 440
Wang, K.Y., T.D. Shen, J.T. Wang and M.X. Quan, The influence of atmosphere on the amorphization reaction by mechanical alloying for the Ni–Ti system 150 (1992) 456
Wang, K.Y., see Shen, T.D. 150 (1992) 468
Wang, L., see Chui, Z.J. 150 (1992) 440
Wang, P., W. Körner, A. Emmerling, A. Beck, J. Kuhn and J. Fricke, Optical investigations of silica aerogels 145 (1992) 141
Wang, P., see Damrau, U. 145 (1992) 164
Wang, P., see Lu, X. 145 (1992) 207
Wang, P.W., see Weeks, R.A. 149 (1992) 122
Wang, Q., G.A. Saunders, H.B. Senin and E.F. Lambson, Temperature dependences of the third-order elastic constants and acoustic mode vibrational anharmonicity of vitreous silica 143 (1992) 65
Wang, T.H., see Laurie, J. 147&148 (1992) 320
Wang, Y., Formation of fluoride glasses based on $AlF_3–YbF_3–PbF_2–ZnF_2–BaF_2$ 142 (1992) 185
Wang, Y., see Ge, M. 147&148 (1992) 565
Wank, U., see Vogelsberger, W. 145 (1992) 20
Wardell, J.L., see Blair, J.A. 146 (1992) 159
Waseda, Y., see Ogawa, H. 143 (1992) 201
Waseda, Y., see Matsubara, E. 150 (1992) 380
Watanabe, T., see Muramatsu, S. 150 (1992) 163
Weeks, R.A., see Hosono, H. 143 (1992) 157
Weeks, R.A., R.H. Magruder III and P.W. Wang, Some effects of 5 eV photons on defects in SiO_2 149 (1992) 122
Wei, W.D., see Shen, T.D. 150 (1992) 464
Wei, W.D., see Shen, T.D. 150 (1992) 468
Wei, X., see Vardeny, Z.V. 141 (1992) 66
Weinberg, M.C., Transformation kinetics of particles with surface and bulk nucleation 142 (1992) 126
Weiser, K., see Haridim, M. 141 (1992) 119
Weissmüller, J., Reduced short-range order in amorphous silicon–gold alloys 142 (1992) 70
Wellbrock, U., W. Beier and G.H. Frischat, Preparation of $SiO_2–TiO_2–ZrO_2$ gel glasses and coatings by means of modified alkoxide solutions 147&148 (1992) 350
Weng, W., Z. Ding, Y. Mao and F. Zhang, The gelation behaviour of copper ethoxide 147&148 (1992) 102
Westerlund, T., see Fellman, J. 146 (1992) 165
Weston, N.E., see Wallenberger, F.T. 144 (1992) 107
Wickboldt, P., see Paul, W. 141 (1992) 271
Willey, R.J., see Moses, J.M. 145 (1992) 41
Williams, B.D., see Menon, N. 141 (1992) 61
Williams, R.D. and S.R. Elliott, A nuclear spin–lattice relaxation study of the mixed-alkali effect in glasses 146 (1992) 43
Wittwer, V., Development of aerogel windows 145 (1992) 233
Woggon, U., see Müller, M.P.A. 144 (1992) 240
Woignier, T., J. Phalippou, J.F. Quinson, M. Pauthe and F. Laveissiere,

Physicochemical transformation of silica gels during hypercritical drying 145 (1992) 25
Woignier, T., J. Phalippou, H. Hdach, G. Larnac, F. Pernot and G.W. Scherer, Evolution of mechanical properties during the alcogel–aerogel–glass process 147&148 (1992) 672
Woignier, T., see Quinson, J.F. 147&148 (1992) 699
Wokaun, A., see Schraml-Marth, M. 143 (1992) 93
Wolfrum, J., see Hitzler, H. 149 (1992) 107
Wolfrum, J., see Leclerc, N. 149 (1992) 115
Wright, A.C., B. Bachra, T.M. Brunier, R.N. Sinclair, L.F. Gladden and R.L. Portsmouth, A neutron diffraction and MAS-NMR study of the structure of fast neutron irradiated vitreous silica 150 (1992) 69
Wright, A.C., see Sinclair, R.N. 150 (1992) 219
Wright, A.C., see Hannon, A.C. 150 (1992) 239
Wright, A.C., see Price, D.L. 150 (1992) 287
Wronski, C.R., Review of direct measurements of mobility gaps in a-Si:H using internal photoemission 141 (1992) 16
Wu, L., see Menon, N. 141 (1992) 61

Yamada, K., see Tonooka, K. 150 (1992) 185
Yamada, S., see Hosokawa, S. 150 (1992) 40
Yamadaya, T., see Sugiura, H. 144 (1992) 151
Yamaguchi, A., see Oguchi, T. 150 (1992) 448
Yamamoto, K., see Dai, Y. 142 (1992) 159
Yamamoto, R., see Oguchi, T. 150 (1992) 448
Yamamura, T., see Suzuya, K. 150 (1992) 167
Yamamuro, T., see Ohtsuki, C. 143 (1992) 84
Yamane, M. and M. Inami, Variable refractive index systems by sol–gel process 147&148 (1992) 606
Yamane, M., see Takada, T. 147&148 (1992) 631
Yamasaki, S., see Okushi, H. 141 (1992) 176
Yanev, Y., see Zotov, N. 142 (1992) 234
Yang, E., see Boldrick, M.S. 150 (1992) 478
Yang, H., see Ge, M. 147&148 (1992) 565
Yang, S.-J., see Hsieh, C.-W. 144 (1992) 53
Yang, Y.X., M.A. Howson and S.J. Milne, Solution-based processing of $YBa_2Cu_3O_x$ superconducting thin films 147&148 (1992) 715
Yano, T., see Takada, T. 147&148 (1992) 631
Yao, M., see Tamura, K. 150 (1992) 351
Yao, T., see Osaka, A. 142 (1992) 81
Yaoita, K., K. Tsuji, Y. Katayama, M. Imai, J.-Q. Chen, T. Kikegawa and O. Shimomura, The structure of liquid bismuth under pressure 150 (1992) 25
Yaoita, K., see Imai, M. 150 (1992) 49
Yasui, I., see Akasaka, Y. 150 (1992) 92
Yasumori, A., see Takada, T. 147&148 (1992) 631
Yeager, K.E. and J.M. Burlitch, GC headspace analysis of intermediates in the sol–gel synthesis of magnesium silicates 149 (1992) 179
Ying, J.Y. and J.B. Benziger, Structure tailoring of alkoxide silica 147&148 (1992) 222
Yoko, T., see Sakka, S. 147&148 (1992) 394
Yoko, T., see Wada, M. 149 (1992) 203
Yoko, T., see Miyaji, F. 150 (1992) 107
Yoko, T., K. Tadanaga, F. Miyaji and S. Sakka, A ^{207}Pb MAS-NMR study of Pb-containing glasses 150 (1992) 192
Yokoyama, I., see Arai, T. 150 (1992) 314
Yokoyama, Y., see Tsai, A.P. 150 (1992) 327
Yoldas, B.E., Thermochemically induced photoluminescence in sol–gel-derived oxide networks 147&148 (1992) 614
Yoon, B.-G., see Fritzsche, H. 141 (1992) 123
Yun, S.-J., see Gadalla, A.M. 143 (1992) 121

Zallen, R., Optical studies of nanocrystalline GaAs: a review 141 (1992) 227
Zamudio, T., see Gómez, R. 147&148 (1992) 748
Zanchetta, J.V., see Bensimon, Y. 149 (1992) 218
Zanotto, E.D., The formation of unusual glasses by sol–gel processing 147&148 (1992) 820
Zarzycki, J., see Chaumont, D. 147&148 (1992) 41
Zarzycki, J., see Chaumont, D. 147&148 (1992) 127
Zarzycki, J., Structure of dense gels 147&148 (1992) 176
Zarzycki, J., see Ramírez-del-Solar, M. 147&148 (1992) 206
Zarzycki, J., see Piñero, M. 147&148 (1992) 523
Zarzycki, J., see Canva, M. 147&148 (1992) 636
Zaspalis, V.T., see Kumar, K.-N.P. 147&148 (1992) 375
Zastrow, A., see Hinsch, A. 147&148 (1992) 579
Zeltner, W.A., see Sheng, G. 147&148 (1992) 548
Zerda, T.W., see Coffer, J.L. 142 (1992) 208
Zerda, T.W., see Hopkins, B.J. 149 (1992) 269
Zhang, F., see Weng, W. 147&148 (1992) 102
Zhang, F., see Ge, M. 147&148 (1992) 565
Zhang, T., see Matsubara, E. 150 (1992) 380
Zhang, T., see Inoue, A. 150 (1992) 396
Zhang, X.H., H.L. Ma, C. Blanchetière and J. Lucas, New glasses based on tellurium and selenium halide for IR fiber optics 146 (1992) 154
Zhang, Z., see Zhu, C. 144 (1992) 89
Zhang, Z., see Schwarz, W. 145 (1992) 244
Zhao, J., see Gaskell, P.H. 150 (1992) 80
Zhilinskaya, E.A., N.K. Valeev and A.K. Oblasov, Ge_xS_{1-x} glasses. II. Synthesis conditions and defect formation 146 (1992) 285
Zhu, C., X. Lu and Z. Zhang, Upconversion fluorescence of TeO_2–

PbO-based oxide glasses containing Er^{3+} ions 144 (1992) 89
Znášik, P. and M. Jamnický, Preparation, infrared spectra and structure of glasses in the system $CuCl–Cu_2O–(P_2O_5 + MoO_3)$ 146 (1992) 74
Zollner, S., see Cardona, M. 141 (1992) 257
Zolotar, M.S., see Nóbrega, M.C.S. 147&148 (1992) 803
Zotov, N., Y. Yanev, M. Epelbaum and L. Konstantinov, Effect of water on the structure of rhyolite glasses – X-ray diffraction and Raman spectroscopy studies 142 (1992) 234
Zuhr, R.A., see Hosono, H. 143 (1992) 157
Zukotynski, S., see Gaspari, F. 143 (1992) 241
zu Putlitz, G., see Schwarz, W. 145 (1992) 244

Journal of Non-Crystalline Solids, Subject index Vols. 141–150 (1992) 31–59
North-Holland

JOURNAL OF
NON-CRYSTALLINE SOLIDS

Subject index to volumes 141–150

Absorption
Sol–Gel Processes, Non-linear Optics 147 & 148 (1992) 631
Sol–Gel Processes, Optical Properties, Fluorescence Spectra 147 & 148 (1992) 508

Acoustic Properties
Aerogels 145 (1992) 223
Aerogels 145 (1992) 227
Aerogels, Infra-red Absorption 145 (1992) 159
Glasses Containing Transition Metal Ions, Relaxation 144 (1992) 159
Structure, Aerogels 145 (1992) 217
Theory, Two-Level system, Thermal Properties 146 (1992) 90

Aerogels
Acoustic Properties 145 (1992) 223
Acoustic Properties 145 (1992) 227
Acoustic Properties, Infra-red Absorption 145 (1992) 159
Acoustic Properties, Structure 145 (1992) 217
Aerogels 145 (1992) 240
Aerogels 145 (1992) 244
Catalysis 145 (1992) 250
Dielectric Properties, Surface Reactions 145 (1992) 168
Glasses Containing Transition Metal Ions, Oxides, Electron Spin Resonance 146 (1992) 261
Heat Capacity, Modelling, Thermal Conductivity 145 (1992) 202
Infra-red Absorption, Theory 145 (1992) 154
Mechanical Properties, Sintering, Small Angle Neutron Scattering 147 & 148 (1992) 672
Neutron Time of Flight Diffraction, Modelling 145 (1992) 121
Neutron Time of Flight Diffraction, Small Angle X-ray Scattering 145 (1992) 105
Nitridation 145 (1992) 99
Non-linear Optics, Organic–Inorganic Hybrids 147 & 148 (1992) 627
Nuclear Magnetic Resonance 145 (1992) 164
Optical Fibers, Thermal Properties 145 (1992) 233
Optical Properties 145 (1992) 141
Optical Properties 145 (1992) 149
Oxynitride Glasses, Porosity 147 & 148 (1992) 386
Raman Spectra 145 (1992) 146
Rare Earth Ions, Electron Microscopy 145 (1992) 71
Small Angle Neutron Scattering 145 (1992) 128
Small Angle X-ray Scattering, Small Angle Neutron Scattering 145 (1992) 133
Small Angle X-ray Scattering, Theory 145 (1992) 113
Sol–Gel Precursors, Organic–Inorganic Hybrids 145 (1992) 90
Sol–Gel Processes 145 (1992) 41
Sol–Gel Processes 145 (1992) 44
Sol–Gel Processes 145 (1992) 75
Sol–Gel Processes, Mechanical Properties, Silica 147 & 148 (1992) 699
Sol–Gel Processes, Structure 143 (1992) 1
Structure, Raman Spectra 145 (1992) 63
Structure, Sol–Gel Processes 145 (1992) 185
Thermal Conductivity 147 & 148 (1992) 356
Thermal Properties 145 (1992) 211
Thermal Properties 145 (1992) 237
Transport Properties – Gel, Diffusion 145 (1992) 180
Water in Glass 145 (1992) 85

Alkali Borate Glasses
Alkali Silicate Glasses, Mixed-Anion Effect, Molecular Dynamics 150 (1992) 103
Annealing Effects, Short-Range Order, X-ray Diffraction 150 (1992) 76
Medium-Range Order, Modelling, Topological Short-Range Order 150 (1992) 140
Oxide Melts, Short-Range Order, X-ray Diffraction 150 (1992) 87

Alkali Silicate Glasses
Alkali Borate Glasses, Mixed-Anion Effect, Molecular Dynamics 150 (1992) 103
Computer Simulation, Liquids, Molecular Dynamics 150 (1992) 302
Computer Simulation, Neutron Time of Flight Diffraction, X-ray Diffraction 150 (1992) 92
Mixed-Alkali Effect, Neutron Time of Flight Diffraction, Short-Range Order 150 (1992) 97

Alloys
Crystallization, Thermal Properties 144 (1992) 308
Defects, Silica, Photoinduced Effects, Luminescence 149 (1992) 96
Gels, Mössbauer Effect, Differential Scanning Calorimetry, Crystallization 149 (1992) 275
Germanium, Silicon, Structure 141 (1992) 53
Glasses Containing Transition Metal Ions, Crystallization, Mössbauer Effect 143 (1992) 147
Glasses Containing Transition Metal Ions, Magnetic Properties, Thin Films 143 (1992) 153
Glasses Containing Transition Metal Ions, Mössbauer Effect, Hydrogen Effects 146 (1992) 63
Liquid Metals, Local Environment, Theory 150 (1992) 266
Liquid Metals, Orientational Correlation, Phase Transition 150 (1992) 260
Liquid Metals, Phonons, Theory 150 (1992) 216
Magnetic Properties, Bonding, Glasses Containing Transition Metal Ions 142 (1992) 278
Mechanical Amorphization, EXAFS, Differential Thermal Analysis 144 (1992) 196
Mechanical Amorphization, Solid State Reaction, Transition Metals 150 (1992) 456
Mechanical Amorphization, Solid State Reaction, Transition Metals 150 (1992) 464
Modelling, Glass Transition, Viscosity 143 (1992) 140
Molecular Dynamics, Diffusion 144 (1992) 187
Molecular Dynamics, Glasses Containing Transition Metal Ions, Structure 144 (1992) 175
Photoresponse, Silicon, Hydrogen Effects 141 (1992) 66
Theory, Structure 146 (1992) 294

Alumina
Catalysis, XPS 147&148 (1992) 764
Clusters, Zirconia 147&148 (1992) 744
EXAFS, XANES, Sol–Gel Method 147&148 (1992) 135
Luminescence, Ultraviolet Absorption, Nuclear Magnetic Resonance 147&148 (1992) 614
Membranes, Silica, Sol–Gel Processes 147&148 (1992) 548
Porosity, Silica 147&148 (1992) 141
Sol–Gel Method, Sintering, Crystallization 147&148 (1992) 245
Sol–Gel Precursors, Viscosity, Stress Measurement 147&148 (1992) 690
Sol–Gel Processes, Phase Transition 147&148 (1992) 565
Sol–Gel Processes 147&148 (1992) 213
Sol–Gel Processes 147&148 (1992) 598

Amorphization
Chalcogenides, Medium-Range Order, Photoinduced Effects 150 (1992) 116
Germanium, Pressure Effects, Silicon 150 (1992) 49
Multilayers, Solid State Reaction, Time Differential Perturbed Angular Correlation 150 (1992) 448
Sputtering, Short-Range Order, X-ray Diffraction 150 (1992) 391

Amorphous Carbon
Neutron Diffraction, Tetrahedral Materials, Topological Short-Range Order 150 (1992) 126

Amorphous Semiconductors
Anomalous X-ray Scattering, Chalcogenides, EXAFS 150 (1992) 371
Anomalous X-ray Scattering, EXAFS, Short-Range Order 150 (1992) 361
Anomalous X-ray Scattering, Medium-Range Order, Short-Range Order 150 (1992) 366
Chalcogenides, EXAFS, Local Environment 150 (1992) 356
Chalcogenides, Medium-Range Order, Raman Spectra 150 (1992) 202
Chalcogenides, Phonons, Raman Spectra 150 (1992) 197
Chalcogenides, Surface Analysis, Scanning Tunneling Microscopy 150 (1992) 435
Dynamical Structure, Chemical Modification, Low-Energy Excitation 150 (1992) 219
EXAFS, Local Environment, Silicon 150 (1992) 347
Fractals, Small Angle X-ray Scattering, Solar Cells 150 (1992) 163
Pressure-Induced Structural Transformation, Solid State Reaction, Thermalization 150 (1992) 44

Amorphous Solids
Amorphous Solids 141 (1992) 1
Expanded Liquids, Applications, Optical Properties 147&148 (1992) 739
Radiation Effects 144 (1992) 95
Topology, Colloids, Sol–Gel Method 147&148 (1992) 183

Annealing Effects
Alkali Borate Glasses, Short-Range Order, X-ray Diffraction 150 (1992) 76
Crystallization, Metallic Glasses, Natural Glasses 150 (1992) 444
Silica, Thin Films 147&148 (1992) 437

Anomalous X-ray Scattering
Amorphous Semiconductors, Chalcogenides, EXAFS 150 (1992) 371

Amorphous Semiconductors, EXAFS, Short-Range Order 150 (1992) 361
Amorphous Semiconductors, Medium-Range Order, Short-Range Order 150 (1992) 366
Chemical Short-Range Order, Metallic Glasses, Mechanical Amorphization 150 (1992) 386
Chemical Short-Range Order, Oxides, Rare Earth Ions 150 (1992) 376
Local Environment, Metallic Glasses, Structural Relaxation 150 (1992) 380

Applications
Doping, Optical Properties 147&148 (1992) 808
Expanded Liquids, Amorphous Solids, Optical Properties 147&148 (1992) 739
Sol–Gel Processes, Structure 147&148 (1992) 271

Bonding
Alloys, Magnetic Properties, Glasses Containing Transition Metal Ions 142 (1992) 278

Borates
Molecular Dynamics, Infra-red Absorption, Raman Spectra, Density of States 146 (1992) 267
Nuclear Quadrupole Resonances, Structure 144 (1992) 217

Borosilicates
Coatings, Sol–Gel Method 147&148 (1992) 474
Nuclear Magnetic Resonance, Structure 146 (1992) 137

Calorimetry
Sol–Gel Processes, Oxides 147&148 (1992) 554

Carbon
Electronic Conductivity, Thermalization, Hopping 144 (1992) 231
Hardness, Infra-red Absorption 147&148 (1992) 483
Phonons, Raman Spectra, Density of States, Germanium 141 (1992) 233
Sol–Gel Method, Silica, Nuclear Magnetic Resonance 147&148 (1992) 280
Sol–Gel Precursors 147&148 (1992) 52

Catalysis
Aerogels 145 (1992) 250
Alumina, XPS 147&148 (1992) 764
Electron Microscopy, Surface Analysis, Metallic Glasses 150 (1992) 440
Infra-red Absorption, Ultraviolet Absorption, X-ray Diffraction 147&148 (1992) 773
Infra-red Absorption, Ultraviolet Absorption 147&148 (1992) 778
Small Angle X-ray Scattering, Sol–Gel Method, Zirconia 147&148 (1992) 41
Sol–Gel Method 147&148 (1992) 753
Sol–Gel Processes, Silicates 143 (1992) 14
Sol–Gel Processes 147&148 (1992) 724
Sol–Gel Processes 147&148 (1992) 758
Sol–Gel Processes 147&148 (1992) 769

Chalcogenides
Amorphization, Medium-Range Order, Photoinduced Effects 150 (1992) 116
Amorphous Semiconductors, Anomalous X-ray Scattering, EXAFS 150 (1992) 371
Amorphous Semiconductors, EXAFS, Local Environment 150 (1992) 356
Amorphous Semiconductors, Medium-Range Order, Raman Spectra 150 (1992) 202
Amorphous Semiconductors, Phonons, Raman Spectra 150 (1992) 197
Amorphous Semiconductors, Surface Analysis, Scanning Tunneling Microscopy 150 (1992) 435
Colloids, Oxides, Electron Microscopy 143 (1992) 181
Crystallization, Kinetics, Modelling 142 (1992) 247
Electrical Properties and Relaxation 141 (1992) 200
Electron Spin Resonance, Defects 146 (1992) 285
Electron Spin Resonance, Glasses Containing Transition Metal Ions 142 (1992) 55
EXAFS, Liquid Semiconductors, Monte Carlo Simulations 150 (1992) 351
First Sharp Diffraction Peak, Medium-Range Order, Modelling 150 (1992) 132
Neutron Diffraction, Structure 143 (1992) 162
Optical Properties, Doping, Electron Spin Resonance 141 (1992) 24
Optical Properties, Phase Separation, Nucleation 144 (1992) 240
Photoinduced Effects, Density of States 141 (1992) 188
Small Angle Neutron Scattering, X-ray Diffraction, Structure 142 (1992) 63
Sol–Gel Processes, Glass Formation, Oxides 147&148 (1992) 569
Structure, Glass Transition, Chemical Modification 143 (1992) 52
Theory, Density of States, Optical Properties 144 (1992) 70
Thin Films, Electron Microscopy, Structure 144 (1992) 253
Thin Films, EXAFS, Structure 144 (1992) 63
Thin Films, Thermal Properties, Modelling 144 (1992) 247

Chalcohalides
Optical Properties, Glass Transition, Fibers 146 (1992) 154

Chemical Durability
Coatings, Thin Films, Zirconia 147&148 (1992) 813
Corrosion 149 (1992) 282
Ion Implantation, Nitrogen 142 (1992) 159
Natural Glasses, Hydrogenation 144 (1992) 224

Chemical Modification
Amorphous Semiconductors, Dynamical Structure, Low-Energy Excitation 150 (1992) 219
Chalcogenides, Structure, Glass Transition 143 (1992) 52
Composites, Densification, Electronic Conductivity 147&148 (1992) 594
Sol–Gel Processes 145 (1992) 55
Sol–Gel Processes, Coatings, Infrared Absorption 147&148 (1992) 350

Chemical Short-Range Order
Anomalous X-ray Scattering, Metallic Glasses, Mechanical Amorphization 150 (1992) 386
Anomalous X-ray Scattering, Oxides, Rare Earth Ions 150 (1992) 376
Light Scattering, Metallic Glasses, Neutron Time of Flight Diffraction 150 (1992) 10
Local Environment, Metallic Glasses, Neutron Time of Flight Diffraction 150 (1992) 15
Metallic Glasses, Structural Relaxation, Transition Metals 150 (1992) 419
Metallic Glasses, Time Differential Perturbed Angular Correlation, XANES 150 (1992) 342

Chromatography
Fractals 147&148 (1992) 170
Sol–Gel Precursors, Nuclear Magnetic Resonance 147&148 (1992) 24

Clusters
Alumina, Zirconia 147&148 (1992) 744
Computer Simulation, Molecular Dynamics, Phase Transition 150 (1992) 429

Coatings
Borosilicates, Sol–Gel Method 147&148 (1992) 474
Chemical Durability, Thin Films, Zirconia 147&148 (1992) 813
Colloids, Optical Properties, Silicates 147&148 (1992) 579
Dielectric Properties 146 (1992) 279
Ion Implantation, Nitridation, Sol–Gel Method 147&148 (1992) 451
Lasers, Densification, Sol–Gel Method 147&148 (1992) 457
Porosity, Oxides 147&148 (1992) 499
Sol–Gel Method 145 (1992) 51
Sol–Gel Method, Electrochemical Properties 147&148 (1992) 792
Sol–Gel Method, Optical Properties, Electrical Properties 147&148 (1992) 409
Sol–Gel Precursors, Oxides 147&148 (1992) 346
Sol–Gel Processes, Chemical Modification, Infra-red Absorption 147&148 (1992) 350
Sol–Gel Processes, Oxidation Reduction 147&148 (1992) 467
Sol–Gel Processes 147&148 (1992) 285
Thin Films, Optical Fibers 147&148 (1992) 404

Colloids
Coatings, Optical Properties, Silicates 147&148 (1992) 579
Ion Implantation, Glasses Containing Transition Metal Ions, Electron Microscopy 143 (1992) 157
Oxides, Chalcogenides, Electron Microscopy 143 (1992) 181
Semiconductors, Sol–Gel Method 147&148 (1992) 657
Silica, Sol–Gel Processes, Electron Microscopy 147&148 (1992) 320
Silicates, Sol–Gel Processes, Photoinduced Effects 147&148 (1992) 326
Sintering, Densification, Porosity 147&148 (1992) 582
Sol–Gel Processes, Electrical Properties 147&148 (1992) 803
Sol–Gel Processes, Optical Properties 142 (1992) 208
Topology, Amorphous Solids, Sol–Gel Method 147&148 (1992) 183
Viscosity, Oxides 147&148 (1992) 67
Zirconia, Small Angle X-ray Scattering, Thin Films 147&148 (1992) 503

Composites
Chemical Modification, Densification, Electronic Conductivity 147&148 (1992) 594
Natural Glasses, Solid State Reaction, Transition Metals 150 (1992) 468
Sol–Gel Processes, Optical Properties 147&148 (1992) 652
Sol–Gel Processes 147&148 (1992) 783

Computer Simulation
Alkali Silicate Glasses, Liquids, Molecular Dynamics 150 (1992) 302
Alkali Silicate Glasses, Neutron Time of Flight Diffraction, X-ray Diffraction 150 (1992) 92
Clusters, Molecular Dynamics, Phase Transition 150 (1992) 429
Dynamical Properties, Molecular Dynamics, Molten Salts 150 (1992) 281
Electrical Properties and Relaxation, Theory, Relaxation 144 (1992) 21

Molecular Dynamics, Structure, Silicon Nitride 150 (1992) 120
Nuclear Magnetic Resonance, Phosphates, Structure 143 (1992) 265
Nucleation, Theory 146 (1992) 1

Contacts
Sol–Gel Processes, Dielectric Properties, Microstructure 147&148 (1992) 74

Corrosion
Chemical Durability 149 (1992) 282

Covalent Glasses
First Sharp Diffraction Peak, Medium-Range Order, Modelling 150 (1992) 112

Crystallization
Alloys, Gels, Mössbauer Effect, Differential Scanning Calorimetry 149 (1992) 275
Alloys, Glasses Containing Transition Metal Ions, Mössbauer Effect 143 (1992) 147
Alloys, Thermal Properties 144 (1992) 308
Annealing Effects, Metallic Glasses, Natural Glasses 150 (1992) 444
Differential Scanning Calorimetry, Mechanical Amorphization, Structural Relaxation 150 (1992) 460
Differential Scanning Calorimetry, Oxides, Sol–Gel Processes 150 (1992) 144
Drying, Glass Ceramics, Zirconia 147&148 (1992) 335
Fluorides 142 (1992) 185
Glass Formation, Oxides, X-ray Diffraction 150 (1992) 107
Glass Formation, Sol–Gel Processes 147&148 (1992) 820
Internal Friction, Metallic Glasses, Structural Relaxation 150 (1992) 406
Kinetics, Differential Scanning Calorimetry 147&148 (1992) 262
Kinetics, Modelling, Chalcogenides 142 (1992) 247
Metallic Glasses, Small Angle X-ray Scattering, Silicon Carbide Fibers 150 (1992) 172
Modelling, Nucleation 146 (1992) 233
Mössbauer Effect, Sol–Gel Method 147&148 (1992) 146
Nucleation, Oxides 144 (1992) 81
Small Angle X-ray Scattering, Sol–Gel Precursors, X-ray Diffraction 147&148 (1992) 152
Sol–Gel Method, Sintering, Alumina 147&148 (1992) 245
Sol–Gel Precursors, Oxides, Phase Transition 144 (1992) 269
Sol–Gel Processes 147&148 (1992) 266
Superconductors, Thermal Properties 146 (1992) 240
Surface Properties, Interfaces 143 (1992) 84

Defects
Chalcogenides, Electron Spin Resonance 146 (1992) 285
Electron Spin Resonance, Silica 149 (1992) 137
Lasers, Silica 149 (1992) 107
Luminescence, Electron Spin Resonance, Silica, Interfaces 149 (1992) 46
Photo-emission, Silica, Silicates, Electronic Structure 149 (1992) 77
Photoinduced Effects, Hydrogenation 141 (1992) 204
Photoinduced Effects, Thermal Properties, Silicon 141 (1992) 166
Photoresponse, Electron Interactions, Mobility 141 (1992) 142
Silica, Alloys, Photoinduced Effects, Luminescence 149 (1992) 96
Silica, Electron Spin Resonance, Radiation Effects 149 (1992) 27
Silica, Fluorescence Spectra, Lasers 149 (1992) 115
Silica, Theory, Electronic Structure 149 (1992) 5
Silica, Thermal Properties, Reactions 149 (1992) 54
Theory 149 (1992) 19
Theory, Modelling, Thermal Properties, Electronic Structure 149 (1992) 1
Time-of-Flight, Silicon, Thermal Properties 141 (1992) 162

Densification
Composites, Chemical Modification, Electronic Conductivity 147&148 (1992) 594
Lasers, Coatings, Sol–Gel Method 147&148 (1992) 457
Optical Properties, Optical Waveguide 147&148 (1992) 641
Pressure Effects, Raman Spectra 144 (1992) 151
Silicates, Sol–Gel Processes, X-ray Diffraction 147&148 (1992) 532
Sintering, Porosity, Colloids 147&148 (1992) 582
Sol–Gel Processes, Sol–Gel Precursors, Small Angle X-ray Scattering 142 (1992) 181

Density
Refractive Index, Optical Properties, Organic–Inorganic Hybrids 146 (1992) 159

Density of States
Chalcogenides, Theory, Optical Properties 144 (1992) 70
Molecular Dynamics, Borates, Infrared Absorption, Raman Spectra 146 (1992) 267
Oxynitride Glasses, Raman Spectra 144 (1992) 145
Phonons, Raman Spectra, Carbon, Germanium 141 (1992) 233
Phonons, Silicon, Raman Spectra 141 (1992) 265
Photoinduced Effects, Chalcogenides 141 (1992) 188
Semiconductors, Photoinduced Effects 141 (1992) 155
Silicon, Hydrogenation, Electron Interactions 143 (1992) 241

Deposition Techniques
Microstructure, Optical Properties, Thin Films 150 (1992) 148

Dielectric Properties
Coatings 146 (1992) 279
Liquids 141 (1992) 61
Relaxation, Modelling 144 (1992) 1
Relaxation, Modelling 144 (1992) 14
Silicon Alloys, Silicon Nitride, Theory 143 (1992) 207
Sol–Gel Processes, Contacts, Microstructure 147&148 (1992) 74
Sol–Gel Processes, Electrical Properties and Relaxation 147&148 (1992) 493
Surface Reactions, Aerogels 145 (1992) 168

Differential Scanning Calorimetry
Alloys, Gels, Mössbauer Effect, Crystallization 149 (1992) 275
Crystallization, Mechanical Amorphization, Structural Relaxation 150 (1992) 460
Crystallization, Oxides, Sol–Gel Processes 150 (1992) 144
Electron Microscopy, Mechanical Amorphization, Solid State Reaction 150 (1992) 472
Glass Transition, Metallic Glasses, Structural Relaxation 150 (1992) 396
Kinetics, Crystallization 147&148 (1992) 262
Phosphates, Sol–Gel Processes, X-ray Diffraction 147&148 (1992) 537

Differential Thermal Analysis
Mechanical Amorphization, Alloys, EXAFS 144 (1992) 196

Diffusion
Aerogels, Transport Properties – Gel 145 (1992) 180
Molecular Dynamics, Alloys 144 (1992) 187

Doping
Applications, Optical Properties 147&148 (1992) 808
Chalcogenides, Optical Properties, Electron Spin Resonance 141 (1992) 24
Fluorescence Spectra, Fluorides, Phosphates 142 (1992) 148
Fluorescence Spectra 147&148 (1992) 97
Silicon, Theory 143 (1992) 232

Drying
Crystallization, Glass Ceramics, Zirconia 147&148 (1992) 335
Mechanical Properties, Structure 147&148 (1992) 442
Membranes, Sol–Gel Method, Titania 147&148 (1992) 375
Sol–Gel Method 145 (1992) 25
Sol–Gel Method, Theory 147&148 (1992) 363
Tin Oxide, Sol–Gel Processes 147&148 (1992) 340

Drying Control Additive
Small Angle X-ray Scattering, Transport Properties – Liquids, Kinetics 147&148 (1992) 238

Dynamical Properties
Computer Simulation, Molecular Dynamics, Molten Salts 150 (1992) 281
Inelastic Neutron Scattering, Liquids, Solutions 150 (1992) 297

Dynamical Structure
Amorphous Semiconductors, Chemical Modification, Low-Energy Excitation 150 (1992) 219
Electron Microscopy, Electron Irradiation, Silicon 150 (1992) 423
Glass Formation, Inelastic Neutron Scattering, Silicon Dioxide 150 (1992) 239
Glass Formation, Molten Salts, Inelastic Neutron Scattering 150 (1992) 287
Glass Transition, Electrolyte Aqueous Solutions, Structural Relaxation 150 (1992) 275
Low-Energy Excitation, Medium-Range Order, Theory 150 (1992) 212
Metallic Glasses, Inelastic Neutron Scattering, Phonons 150 (1992) 251
Metallic Glasses, Inelastic Neutron Scattering, Quasicrystals 150 (1992) 231
Metallic Glasses, Nanocrystalline Materials, Phonons 150 (1992) 245

Elastic Properties
Silica, Mechanical Properties, Thermal Properties 143 (1992) 65
Sol–Gel Processes, Liquids, Transport Properties – Gel, Transport Properties – Liquids 142 (1992) 18

Electrical Properties
Colloids, Sol–Gel Processes 147&148 (1992) 803
Silicon, Thin Films, Electronic Structure 149 (1992) 264
Sol–Gel Method, Coatings, Optical Properties 147&148 (1992) 409
Switching, Oxides, Glasses Containing Transition Metal Ions 149 (1992) 249

Electrical Properties and Relaxation
Chalcogenides 141 (1992) 200
Sol–Gel Processes, Dielectric Properties 147&148 (1992) 493

Theory, Computer Simulation, Relaxation 144 (1992) 21

Electric Properties
Ionic Conductivity, Sol–Gel Method, Silicates 147&148 (1992) 668
Photoinduced Effects, Time-of-Flight, Silicon 141 (1992) 133
Quasicrystals, Stability, Theory 150 (1992) 337

Electrochemical Properties
Sol–Gel Method, Coatings 147&148 (1992) 792

Electrolyte Aqueous Solutions
Dynamical Structure, Glass Transition, Structural Relaxation 150 (1992) 275
Nucleation, Ice, Small Angle Neutron Scattering 150 (1992) 413

Electron Diffraction
Quasicrystals, Structure, X-ray Diffraction 150 (1992) 327

Electronic Conductivity
Carbon, Thermalization, Hopping 144 (1992) 231
Composites, Chemical Modification, Densification 147&148 (1992) 594
Silicon, Hydrogen in Glass, Relaxation 141 (1992) 76
Structure 147&148 (1992) 663

Electronic Structure
Defects, Silica, Theory 149 (1992) 5
Luminescence, Silica 143 (1992) 246
Metallic Glasses, Theory, Transition Metals 150 (1992) 307
Phonons, Modelling, Semiconductors 141 (1992) 257
Phosphates, Silicates, Theory 150 (1992) 318
Photo-emission, Silica, Silicates, Defects 149 (1992) 77
Silica, Photoinduced Effects, Luminescence 149 (1992) 32
Silicon, Hydrogenation, Photoinduced Effects 141 (1992) 16
Silicon, Photoinduced Effects 141 (1992) 176
Silicon, Thin Films, Electrical Properties 149 (1992) 264
Silicon Nitride, Thin Films, Infra-red Absorption, Refractive Index 144 (1992) 261
Theory, Modelling, Thermal Properties, Defects 149 (1992) 1
Thin Films, Modelling 141 (1992) 216

Electron Interactions
Defects, Photoresponse, Mobility 141 (1992) 142
Density of States, Silicon, Hydrogenation 143 (1992) 241
Germanium, Hydrogen Effects, Theory 144 (1992) 115

Electron Irradiation
Dynamical Structure, Electron Microscopy, Silicon 150 (1992) 423

Electron Microscopy
Aerogels, Rare Earth Ions 145 (1992) 71
Catalysis, Surface Analysis, Metallic Glasses 150 (1992) 440
Chalcogenides, Thin Films, Structure 144 (1992) 253
Colloids, Oxides, Chalcogenides 143 (1992) 181
Colloids, Silica, Sol–Gel Processes 147&148 (1992) 320
Differential Scanning Calorimetry, Mechanical Amorphization, Solid State Reaction 150 (1992) 472
Dynamical Structure, Electron Irradiation, Silicon 150 (1992) 423
Fractals, Ion Irradiation, Thin Films 150 (1992) 332
Ion Implantation, Glasses Containing Transition Metal Ions, Colloids 143 (1992) 157
Silicates, Sol–Gel Method, Sol–Gel Processes 147&148 (1992) 303
Sol–Gel Processes, Fractals, Small Angle Neutron Scattering 147&148 (1992) 382
Sol–Gel Processes, X-ray Diffraction, Nuclear Magnetic Resonance 144 (1992) 298

Electron Spin Resonance
Chalcogenides, Defects 146 (1992) 285
Chalcogenides, Glasses Containing Transition Metal Ions 142 (1992) 55
Chalcogenides, Optical Properties, Doping 141 (1992) 24
Defects, Silica, Radiation Effects 149 (1992) 27
Glasses Containing Transition Metal Ions 144 (1992) 169
Glasses Containing Transition Metal Ions, Oxides, Aerogels 146 (1992) 261
Glasses Containing Transition Metal Ions, Sol–Gel Processes 149 (1992) 189
Luminescence, Silica, Defects, Interfaces 149 (1992) 46
Magnetic Properties 142 (1992) 155
Magnetic Properties, Oxides 146 (1992) 256
Oxides, Oxidation Reduction 149 (1992) 218
Oxides, Sol–Gel Precursors, Glasses Containing Transition Metal Ions 149 (1992) 62
Silica, Defects 149 (1992) 137
Silica, Optical Properties, Radiation Effects 149 (1992) 122
Silica, Silicates, Sol–Gel Processes 147&148 (1992) 106
Sol–Gel Processes, Glasses Containing Transition Metal Ions, Surface Properties 146 (1992) 97
Sol–Gel Processes, Optical Properties 144 (1992) 111

Ellipsometry
Porosity, Thin Films, Sol–Gel Processes 147&148 (1992) 424

Emulsions
Sol–Gel Processes, Memory Behaviour 147&148 (1992) 30

EXAFS
Amorphous Semiconductors, Anomalous X-ray Scattering, Chalcogenides 150 (1992) 371
Amorphous Semiconductors, Anomalous X-ray Scattering, Short-Range Order 150 (1992) 361
Amorphous Semiconductors, Chalcogenides, Local Environment 150 (1992) 356
Amorphous Semiconductors, Local Environment, Silicon 150 (1992) 347
Chalcogenides, Liquid Semiconductors, Monte Carlo Simulations 150 (1992) 351
Chalcogenides, Thin Films, Structure 144 (1992) 63
Intermetallic Compounds, Mechanical Amorphization, Transition Metals 150 (1992) 491
Mechanical Amorphization, Alloys, Differential Thermal Analysis 144 (1992) 196
Mechanical Amorphization, Scanning Electron Microscopy, X-ray Diffraction 150 (1992) 487
Oxides, Structure 142 (1992) 81
Thin Films, Silicates, Hydrogen Effects, XANES 142 (1992) 113
XANES, Sol–Gel Method, Alumina 147&148 (1992) 135

Excitons
Silicon, Hydrogenation 141 (1992) 97

Expanded Liquids
Amorphous Solids, Applications, Optical Properties 147&148 (1992) 739
Liquid Metals, Topological Short-Range Order, X-ray Diffraction 150 (1992) 29
Molten Salts, Short-Range Order, X-ray Diffraction 150 (1992) 40

Expansion
Refractive Index, Gradient Index, Sol–Gel Method 147&148 (1992) 606

Fabrication
Small Angle X-ray Scattering, Metal Alkoxide, Sol–Gel Processes 147&148 (1992) 189

Fermi Level
Optical Properties, Oxides, Organic–Inorganic Hybrids 147&148 (1992) 621
Thin Films, Thin Films, First Sharp Diffraction Peak 147&148 (1992) 799

Fibers
Chalcohalides, Optical Properties, Glass Transition 146 (1992) 154
Lasers, Rare-earth Ions, Fluorides 143 (1992) 40
Oxides, Glass Fibers, Viscosity 144 (1992) 107
Silica, Infra-red Absorption, Sol–Gel Processes 146 (1992) 81
Sol–Gel Processes, Strength, Silica 143 (1992) 31
Sol–Gel Processes 147&148 (1992) 394

First Sharp Diffraction Peak
Chalcogenides, Medium-Range Order, Modelling 150 (1992) 132
Covalent Glasses, Medium-Range Order, Modelling 150 (1992) 112
Medium-Range Order, Modelling, Polymers 150 (1992) 136
Thin Films, Fermi Level, Thin Films 147&148 (1992) 799

Fluorescence Spectra
Doping 147&148 (1992) 97
Fluorides, Doping, Phosphates 142 (1992) 148
Glass Formation, Local Environment, Rare Earth Ions 150 (1992) 185
Lasers, Rare-earth Ions 143 (1992) 46
Optical Fibers, Oxides, Rare Earth Ions, Optical Properties 149 (1992) 229
Phosphates, Rare-earth Ions 142 (1992) 175
Rare Earth Ions, Oxides, Lasers 144 (1992) 89
Silica, Defects, Lasers 149 (1992) 115
Sol–Gel Processes, Optical Properties, Absorption 147&148 (1992) 508

Fluorides
Crystallization 142 (1992) 185
Fibers, Lasers, Rare-earth Ions 143 (1992) 40
Fluorescence Spectra, Doping, Phosphates 142 (1992) 148
Germanates, Glass Formation 142 (1992) 269
Optical Properties 142 (1992) 260

Fractals
Amorphous Semiconductors, Small Angle X-ray Scattering, Solar Cells 150 (1992) 163
Chromatography 147&148 (1992) 170
Electron Microscopy, Ion Irradiation, Thin Films 150 (1992) 332
Fracture, Oxides 146 (1992) 249
Metal Alkoxide, Small Angle X-ray Scattering, Sol–Gel Processes 150 (1992) 157
Sol–Gel Processes, Electron Microscopy, Small Angle Neutron Scattering 147&148 (1992) 382

Titania, Small Angle X-ray Scattering, Kinetics 147&148 (1992) 92

Fracture
Fractals, Oxides 146 (1992) 249

Gels
Alloys, Mössbauer Effect, Differential Scanning Calorimetry, Crystallization 149 (1992) 275
Mechanical Properties, Stress Relaxation, Theory 144 (1992) 210
Silica, Porosity 149 (1992) 269

Germanates
Fluorides, Glass Formation 142 (1992) 269

Germania
Thermal Properties, Oxides 147&148 (1992) 162

Germanium
Alloys, Silicon, Structure 141 (1992) 53
Amorphization, Pressure Effects, Silicon 150 (1992) 49
Electron Interactions, Hydrogen Effects, Theory 144 (1992) 115
Phonons, Raman Spectra, Density of States, Carbon 141 (1992) 233
Structure, Hydrogenation, Thin Films 141 (1992) 271

Glass Ceramics
Crystallization, Drying, Zirconia 147&148 (1992) 335
Mechanical Properties 147&148 (1992) 523
Sol–Gel Processes, Sintering, Mechanical Properties 147&148 (1992) 559

Glasses Containing Transition Metal Ions
Acoustic Properties, Relaxation 144 (1992) 159
Alloys, Crystallization, Mössbauer Effect 143 (1992) 147
Alloys, Magnetic Properties, Bonding 142 (1992) 278
Alloys, Magnetic Properties, Thin Films 143 (1992) 153
Alloys, Mössbauer Effect, Hydrogen Effects 146 (1992) 63
Chalcogenides, Electron Spin Resonance 142 (1992) 55
Electrical Properties, Switching, Oxides 149 (1992) 249
Electron Spin Resonance 144 (1992) 169
Electron Spin Resonance, Oxides, Sol–Gel Precursors 149 (1992) 62
Electron Spin Resonance, Sol–Gel Processes 149 (1992) 189
Ion Implantation, Electron Microscopy, Colloids 143 (1992) 157
Molecular Dynamics, Alloys, Structure 144 (1992) 175
Oxides, Electron Spin Resonance, Aerogels 146 (1992) 261
Phosphates, Infra-red Absorption, Structure 146 (1992) 74
Sol–Gel Processes, Electron Spin Resonance, Surface Properties 146 (1992) 97
Sol–Gel Processes, Porosity, Oxides 143 (1992) 93

Glass Fibers
Fibers, Oxides, Viscosity 144 (1992) 107
Refractive Index, Theory 146 (1992) 165

Glass Formation
Crystallization, Sol–Gel Processes 147&148 (1992) 820
Dynamical Structure, Inelastic Neutron Scattering, Silicon Dioxide 150 (1992) 239
Dynamical Structure, Molten Salts, Inelastic Neutron Scattering 150 (1992) 287
Fluorescence Spectra, Local Environment, Rare Earth Ions 150 (1992) 185
Fluorides, Germanates 142 (1992) 269
Local Environment, Oxides, Raman Spectra 150 (1992) 207
Nuclear Magnetic Resonance, Optical Waveguide, Short-Range Order 150 (1992) 192
Organic–Inorganic Hybrids, Luminescence, Stability 147&148 (1992) 478
Oxides, Crystallization, X-ray Diffraction 150 (1992) 107
Semiconductors, Raman Spectra, Scanning Electron Microscopy 147&148 (1992) 251
Sol–Gel Processes, Oxides, Chalcogenides 147&148 (1992) 569
Structure, Thermal Properties, Two-Level system 150 (1992) 179

Glass Transition
Alloys, Modelling, Viscosity 143 (1992) 140
Chalcogenides, Structure, Chemical Modification 143 (1992) 52
Chalcohalides, Optical Properties, Fibers 146 (1992) 154
Differential Scanning Calorimetry, Metallic Glasses, Structural Relaxation 150 (1992) 396
Dynamical Structure, Electrolyte Aqueous Solutions, Structural Relaxation 150 (1992) 275
Low-Energy Excitation, Inelastic Neutron Scattering, Molten Salts 150 (1992) 292
Metallic Glasses, Mechanical Properties, Structural Relaxation 150 (1992) 401
Modelling, Relaxation, Mechanical Properties 146 (1992) 225

Modelling, Thermal Conductivity 145 (1992) 191
Nuclear Magnetic Resonance, Phosphates, Structure 143 (1992) 257

Gradient Index
Refractive Index, Expansion, Sol–Gel Method 147&148 (1992) 606

Growth Kinetics
Nuclear Magnetic Resonance, Sol–Gel Processes, Viscosity 147&148 (1992) 686

Halide Glasses
Sol–Gel Processes 146 (1992) 301

Hardness
Carbon, Infra-red Absorption 147&148 (1992) 483
Silica 146 (1992) 197

Heat Capacity
Aerogels, Modelling, Thermal Conductivity 145 (1992) 202

Hopping
Carbon, Electronic Conductivity, Thermalization 144 (1992) 231

Hydrogenation
Density of States, Silicon, Electron Interactions 143 (1992) 241
Excitons, Silicon 141 (1992) 97
Hydrogen Effects, Infra-red Absorption 141 (1992) 241
Mechanical Amorphization, Solid State Reaction, X-ray Diffraction 150 (1992) 452
Mechanical Amorphization, Structure, Small Angle Neutron Scattering 150 (1992) 153
Natural Glasses, Chemical Durability 144 (1992) 224
Photoinduced Effects, Defects 141 (1992) 204
Silicon, Photoinduced Effects, Electronic Structure 141 (1992) 16
Structure, Germanium, Thin Films 141 (1992) 271

Hydrogen Effects
Alloys, Glasses Containing Transition Metal Ions, Mössbauer Effect 146 (1992) 63
Germanium, Electron Interactions, Theory 144 (1992) 115
Hydrogenation, Infra-red Absorption 141 (1992) 241
Nitridation, Silicon Nitride, Thin Films 146 (1992) 190
Photoresponse, Silicon, Alloys 141 (1992) 66
Silicon, Infra-red Absorption 149 (1992) 257
Silicon Alloys, Photoresponse, Plasma Deposition 142 (1992) 108
Thin Films, Silicates, XANES, EXAFS 142 (1992) 113

Hydrogen in Glass
Nuclear Magnetic Resonance, Infra-red Absorption, Oxides 142 (1992) 103
Silicon, Electronic Conductivity, Relaxation 141 (1992) 76

Ice
Nucleation, Electrolyte Aqueous Solutions, Small Angle Neutron Scattering 150 (1992) 413

Impurity Conduction
Silica, Sol–Gel Processes, Structure 147&148 (1992) 222
Sol–Gel Processes, X-ray Diffraction 147&148 (1992) 36

Inelastic Neutron Scattering
Dynamical Properties, Liquids, Solutions 150 (1992) 297
Dynamical Structure, Glass Formation, Molten Salts 150 (1992) 287
Dynamical Structure, Glass Formation, Silicon Dioxide 150 (1992) 239
Dynamical Structure, Metallic Glasses, Phonons 150 (1992) 251
Glass Transition, Low-Energy Excitation, Molten Salts 150 (1992) 292
Infra-red Absorption, Phonons, Silicon Carbide Fibers 150 (1992) 255
Metallic Glasses, Dynamical Structure, Quasicrystals 150 (1992) 231

Infra-red Absorption
Aerogels, Acoustic Properties 145 (1992) 159
Aerogels, Theory 145 (1992) 154
Carbon, Hardness 147&148 (1992) 483
Catalysis, Ultraviolet Absorption, X-ray Diffraction 147&148 (1992) 773
Catalysis, Ultraviolet Absorption 147&148 (1992) 778
Hydrogen Effects, Hydrogenation 141 (1992) 241
Hydrogen in Glass, Nuclear Magnetic Resonance, Oxides 142 (1992) 103
Inelastic Neutron Scattering, Phonons, Silicon Carbide Fibers 150 (1992) 255
Molecular Dynamics, Borates, Raman Spectra, Density of States 146 (1992) 267
Phosphates, Glasses Containing Transition Metal Ions, Structure 146 (1992) 74
Raman Spectra, Silica, Reactions 143 (1992) 75
Silica, Kinetics, Raman Spectra 147&148 (1992) 232
Silica, Sol–Gel Processes, Fibers 146 (1992) 81
Silicon, Hydrogen Effects 149 (1992) 257
Silicon Nitride, Thin Films, Electronic Structure, Refractive Index 144 (1992) 261
Sol–Gel Precursors, Oxides, Nuclear Magnetic Resonance, Structure 142 (1992) 225
Sol–Gel Processes, Coatings, Chemical Modification 147&148 (1992) 350

Sol–Gel Processes, Silicon Alloys, Nuclear Magnetic Resonance 144 (1992) 287
Sol–Gel Processes, Small Angle X-ray Scattering 147&148 (1992) 157
Sol–Gel Processes, Titania, X-ray Diffraction 147&148 (1992) 256
Surface Properties, Silicates, Water in Glass 147&148 (1992) 115
Thin Films, Sol–Gel Processes, Oxides 144 (1992) 53

Interfaces
Crystallization, Surface Properties 143 (1992) 84
Luminescence, Electron Spin Resonance, Silica, Defects 149 (1992) 46

Intermetallic Compounds
EXAFS, Mechanical Amorphization, Transition Metals 150 (1992) 491

Internal Friction
Crystallization, Metallic Glasses, Structural Relaxation 150 (1992) 406
Metallic Glasses, Phase Separation 142 (1992) 165
Mixed-Alkali Effect, Modelling, Ionic Conductivity 146 (1992) 26

Ionic Conductivity
Light Scattering, Relaxation 143 (1992) 274
Local Environment, Neutron Diffraction, Phosphates 150 (1992) 80
Mixed-Alkali Effect, Modelling, Internal Friction 146 (1992) 26
Mixed-Alkali Effect, Nuclear Magnetic Resonance, Relaxation 146 (1992) 43
Oxides, Nuclear Magnetic Resonance, Phase Separation 146 (1992) 50
Sol–Gel Method, Electric Properties, Silicates 147&148 (1992) 668

Ion Implantation
Coatings, Nitridation, Sol–Gel Method 147&148 (1992) 451
Glasses Containing Transition Metal Ions, Electron Microscopy, Colloids 143 (1992) 157
Nitrogen, Chemical Durability 142 (1992) 159
Silica, Optical Properties 142 (1992) 287

Ion Irradiation
Electron Microscopy, Fractals, Thin Films 150 (1992) 332

Kinetics
Crystallization, Differential Scanning Calorimetry 147&148 (1992) 262
Crystallization, Modelling, Chalcogenides 142 (1992) 247
Silica, Raman Spectra, Infra-red Absorption 147&148 (1992) 232
Small Angle X-ray Scattering, Transport Properties – Liquids, Drying Control Additive 147&148 (1992) 238
Sol–Gel Method, Small Angle X-ray Scattering 147&148 (1992) 206
Sol–Gel Precursors 147&148 (1992) 102
Sol–Gel Processes, Nuclear Magnetic Resonance, Reactions 146 (1992) 111
Sol–Gel Processes 147&148 (1992) 13
Titania, Small Angle X-ray Scattering, Fractals 147&148 (1992) 92

Lasers
Defects, Silica 149 (1992) 107
Densification, Coatings, Sol–Gel Method 147&148 (1992) 457
Fibers, Rare-earth Ions, Fluorides 143 (1992) 40
Fluorescence Spectra, Rare Earth Ions, Oxides 144 (1992) 89
Metal–Non-metal Transition, Optical Waveguide, Sol–Gel Method 147&148 (1992) 447
Optical Properties, Radiation Effects 149 (1992) 102
Rare-earth Ions, Fluorescence Spectra 143 (1992) 46
Silica, Defects, Fluorescence Spectra 149 (1992) 115
Sol–Gel Method 147&148 (1992) 636

Light Scattering
Ionic Conductivity, Relaxation 143 (1992) 274
Metallic Glasses, Neutron Time of Flight Diffraction, Chemical Short-Range Order 150 (1992) 10
Optical Properties, Oxides 149 (1992) 243
Sol–Gel Processes, Nuclear Magnetic Resonance, Structure 149 (1992) 161

Liquid Metals
Alloys, Local Environment, Theory 150 (1992) 266
Alloys, Orientational Correlation, Phase Transition 150 (1992) 260
Alloys, Phonons, Theory 150 (1992) 216
Expanded Liquids, Topological Short-Range Order, X-ray Diffraction 150 (1992) 29
Pressure Effects, Topological Short-Range Order, X-ray Diffraction 150 (1992) 25
Pseudopotential Approach, Structure, Transition Metals 150 (1992) 314

Liquids
Alkali Silicate Glasses, Computer Simulation, Molecular Dynamics 150 (1992) 302
Dielectric Properties 141 (1992) 61

Dynamical Properties, Inelastic Neutron Scattering, Solutions 150 (1992) 297
Melting, Topological Short-Range Order, Theory 150 (1992) 271
Oxides, X-ray Diffraction, Molecular Dynamics 143 (1992) 201
Sol–Gel Processes, Elastic Properties, Transport Properties – Gel, Transport Properties – Liquids 142 (1992) 18

Liquid Semiconductors
Chalcogenides, EXAFS, Monte Carlo Simulations 150 (1992) 351
Medium-Range Order, Monte Carlo Simulations, Neutron Time of Flight Diffraction 150 (1992) 53
Monte Cario Simulations, Short-Range Order, X-ray Diffraction 150 (1992) 35

Local Environment
Alloys, Liquid Metals, Theory 150 (1992) 266
Amorphous Semiconductors, Chalcogenides, EXAFS 150 (1992) 356
Amorphous Semiconductors, EXAFS, Silicon 150 (1992) 347
Anomalous X-ray Scattering, Metallic Glasses, Structural Relaxation 150 (1992) 380
Chemical Short-Range Order, Metallic Glasses, Neutron Time of Flight Diffraction 150 (1992) 15
Glass Formation, Fluorescence Spectra, Rare Earth Ions 150 (1992) 185
Glass Formation, Oxides, Raman Spectra 150 (1992) 207
Ionic Conductivity, Neutron Diffraction, Phosphates 150 (1992) 80

Low-Energy Excitation
Amorphous Semiconductors, Dynamical Structure, Chemical Modification 150 (1992) 219
Dynamical Structure, Medium-Range Order, Theory 150 (1992) 212
Glass Transition, Inelastic Neutron Scattering, Molten Salts 150 (1992) 292

Luminescence
Alumina, Ultraviolet Absorption, Nuclear Magnetic Resonance 147&148 (1992) 614
Defects, Silica, Alloys, Photoinduced Effects 149 (1992) 96
Electronic Structure, Silica 143 (1992) 246
Electronic Structure, Silica, Photoinduced Effects 149 (1992) 32
Electron Spin Resonance, Silica, Defects, Interfaces 149 (1992) 46
Modelling 141 (1992) 88
Organic–Inorganic Hybrids, Glass Formation, Stability 147&148 (1992) 478
Rare-earth Ions 143 (1992) 252

Magnetic Properties
Alloys, Bonding, Glasses Containing Transition Metal Ions 142 (1992) 278
Alloys, Glasses Containing Transition Metal Ions, Thin Films 143 (1992) 153
Electron Spin Resonance 142 (1992) 155
Optical Properties, Optical Fibers, Silicates 141 (1992) 47
Oxides, Electron Spin Resonance 146 (1992) 256
Sol–Gel Processes, Optical Properties 147&148 (1992) 463
Sol–Gel Processes, Superconductors, Transport Properties – Devices 147&148 (1992) 704
Sputtering, Thin Films, X-ray Diffraction 150 (1992) 21

Mechanical Amorphization
Alloys, EXAFS, Differential Thermal Analysis 144 (1992) 196
Alloys, Solid State Reaction, Transition Metals 150 (1992) 456
Alloys, Solid State Reaction, Transition Metals 150 (1992) 464
Anomalous X-ray Scattering, Chemical Short-Range Order, Metallic Glasses 150 (1992) 386
Crystallization, Differential Scanning Calorimetry, Structural Relaxation 150 (1992) 460
Differential Scanning Calorimetry, Electron Microscopy, Solid State Reaction 150 (1992) 472
EXAFS, Intermetallic Compounds, Transition Metals 150 (1992) 491
EXAFS, Scanning Electron Microscopy, X-ray Diffraction 150 (1992) 487
Hydrogenation, Solid State Reaction, X-ray Diffraction 150 (1992) 452
Hydrogenation, Structure, Small Angle Neutron Scattering 150 (1992) 153
Metallic Glasses, Splat-cooling, Short-Range Order 150 (1992) 483
Natural Glasses, Solid State Reaction, X-ray Diffraction 150 (1992) 478
Neutron Diffraction, Natural Glasses, X-ray Diffraction 150 (1992) 1

Mechanical Properties
Aerogels, Sintering, Small Angle Neutron Scattering 147&148 (1992) 672
Drying, Structure 147&148 (1992) 442
Gels, Stress Relaxation, Theory 144 (1992) 210
Glass Ceramics 147&148 (1992) 523

Glass Transition, Metallic Glasses, Structural Relaxation 150 (1992) 401
Modelling, Relaxation, Glass Transition 146 (1992) 225
Silica, Elastic Properties, Thermal Properties 143 (1992) 65
Sol–Gel Processes, Aerogels, Silica 147&148 (1992) 699
Sol–Gel Processes, Glass Ceramics, Sintering 147&148 (1992) 559
Viscosity 147&148 (1992) 681

Medium-Range Order
Alkali Borate Glasses, Modelling, Topological Short-Range Order 150 (1992) 140
Amorphization, Chalcogenides, Photoinduced Effects 150 (1992) 116
Amorphous Semiconductors, Anomalous X-ray Scattering, Short-Range Order 150 (1992) 366
Amorphous Semiconductors, Chalcogenides, Raman Spectra 150 (1992) 202
Chalcogenides, First Sharp Diffraction Peak, Modelling 150 (1992) 132
Covalent Glasses, First Sharp Diffraction Peak, Modelling 150 (1992) 112
Dynamical Structure, Low-Energy Excitation, Theory 150 (1992) 212
First Sharp Diffraction Peak, Modelling, Polymers 150 (1992) 136
Liquid Semiconductors, Monte Carlo Simulations, Neutron Time of Flight Diffraction 150 (1992) 53
Molecular Liquids, Modelling, Neutron Time of Flight Diffraction 150 (1992) 58
Natural Glasses, Small Angle X-ray Scattering, Silicon Carbide Fibers 150 (1992) 167

Melting
Liquids, Topological Short-Range Order, Theory 150 (1992) 271

Membranes
Alumina, Silica, Sol–Gel Processes 147&148 (1992) 548
Drying, Sol–Gel Method, Titania 147&148 (1992) 375
Sol–Gel Processes 147&148 (1992) 518

Memory Behaviour
Sol–Gel Processes, Emulsions 147&148 (1992) 30

Metal Alkoxide
Fractals, Small Angle X-ray Scattering, Sol–Gel Processes 150 (1992) 157
Small Angle X-ray Scattering, Fabrication, Sol–Gel Processes 147&148 (1992) 189
Sol–Gel Processes, Reactions, Organic–Inorganic Hybrids 147&148 (1992) 80

Metallic Glasses
Annealing Effects, Crystallization, Natural Glasses 150 (1992) 444
Anomalous X-ray Scattering, Chemical Short-Range Order, Mechanical Amorphization 150 (1992) 386
Anomalous X-ray Scattering, Local Environment, Structural Relaxation 150 (1992) 380
Catalysis, Electron Microscopy, Surface Analysis 150 (1992) 440
Chemical Short-Range Order, Local Environment, Neutron Time of Flight Diffraction 150 (1992) 15
Chemical Short-Range Order, Structural Relaxation, Transition Metals 150 (1992) 419
Chemical Short-Range Order, Time Differential Perturbed Angular Correlation, XANES 150 (1992) 342
Crystallization, Internal Friction, Structural Relaxation 150 (1992) 406
Crystallization, Small Angle X-ray Scattering, Silicon Carbide Fibers 150 (1992) 172
Differential Scanning Calorimetry, Glass Transition, Structural Relaxation 150 (1992) 396
Dynamical Structure, Inelastic Neutron Scattering, Phonons 150 (1992) 251
Dynamical Structure, Inelastic Neutron Scattering, Quasicrystals 150 (1992) 231
Dynamical Structure, Nanocrystalline Materials, Phonons 150 (1992) 245
Electronic Structure, Theory, Transition Metals 150 (1992) 307
Glass Transition, Mechanical Properties, Structural Relaxation 150 (1992) 401
Light Scattering, Neutron Time of Flight Diffraction, Chemical Short-Range Order 150 (1992) 10
Mechanical Amorphization, Splat-cooling, Short-Range Order 150 (1992) 483
Neutron Time of Flight Diffraction 144 (1992) 99
Phase Separation, Internal Friction 142 (1992) 165

Metal–Non-metal Transition
Lasers, Optical Waveguide, Sol–Gel Method 147&148 (1992) 447

Microstructure
Deposition Techniques, Optical Properties, Thin Films 150 (1992) 148
Modelling, X-ray Sensor 147&148 (1992) 176
Sol–Gel Processes, Contacts, Dielectric Properties 147&148 (1992) 74
Sol–Gel Processes, Reactions 143 (1992) 112

Mixed-Alkali Effect
Alkali Silicate Glasses, Neutron Time of Flight Diffraction, Short-Range Order 150 (1992) 97
Modelling, Internal Friction, Ionic Conductivity 146 (1992) 26
Nuclear Magnetic Resonance, Relaxation, Ionic Conductivity 146 (1992) 43

Mixed-Anion Effect
Alkali Borate Glasses, Alkali Silicate Glasses, Molecular Dynamics 150 (1992) 103

Mobility
Defects, Photoresponse, Electron Interactions 141 (1992) 142
Photoinduced Effects, Transport Properties – Solids, Silicon 141 (1992) 106

Modelling
Aerogels, Heat Capacity, Thermal Conductivity 145 (1992) 202
Alkali Borate Glasses, Medium-Range Order, Topological Short-Range Order 150 (1992) 140
Alloys, Glass Transition, Viscosity 143 (1992) 140
Chalcogenides, First Sharp Diffraction Peak, Medium-Range Order 150 (1992) 132
Chalcogenides, Thin Films, Thermal Properties 144 (1992) 247
Covalent Glasses, First Sharp Diffraction Peak, Medium-Range Order 150 (1992) 112
Crystallization, Kinetics, Chalcogenides 142 (1992) 247
Crystallization, Nucleation 146 (1992) 233
Electronic Structure, Phonons, Semiconductors 141 (1992) 257
First Sharp Diffraction Peak, Medium-Range Order, Polymers 150 (1992) 136
Luminescence 141 (1992) 88
Microstructure, X-ray Sensor 147 & 148 (1992) 176
Mixed-Alkali Effect, Internal Friction, Ionic Conductivity 146 (1992) 26
Molecular Dynamics, Oxides, Silicates 146 (1992) 218
Molecular Liquids, Medium-Range Order, Neutron Time of Flight Diffraction 150 (1992) 58
Neutron Time of Flight Diffraction, Aerogels 145 (1992) 121
Optical Properties, Oxides 144 (1992) 76
Optical Properties, Thermal Properties, Oxides 146 (1992) 145
Relaxation, Dielectric Properties 144 (1992) 1
Relaxation, Dielectric Properties 144 (1992) 14
Relaxation, Glass Transition, Mechanical Properties 146 (1992) 225
Sol–Gel Method, Viscosity 145 (1992) 20
Sol–Gel Processes 142 (1992) 1
Structure, Silicon Dioxide, X-ray Diffraction 150 (1992) 65
Structure, Theory, Oxides 146 (1992) 57
Theory, Structure 144 (1992) 203
Theory, Thermal Properties, Electronic Structure, Defects 149 (1992) 1
Thermal Conductivity 145 (1992) 196
Thermal Conductivity, Glass Transition 145 (1992) 191
Thin Films, Electronic Structure 141 (1992) 216
X-ray Diffraction, Structure, Oxides 143 (1992) 191

Molecular Dynamics
Alkali Borate Glasses, Alkali Silicate Glasses, Mixed-Anion Effect 150 (1992) 103
Alkali Silicate Glasses, Computer Simulation, Liquids 150 (1992) 302
Alloys, Diffusion 144 (1992) 187
Alloys, Glasses Containing Transition Metal Ions, Structure 144 (1992) 175
Borates, Infra-red Absorption, Raman Spectra, Density of States 146 (1992) 267
Computer Simulation, Clusters, Phase Transition 150 (1992) 429
Computer Simulation, Dynamical Properties, Molten Salts 150 (1992) 281
Computer Simulation, Structure, Silicon Nitride 150 (1992) 120
Modelling, Oxides, Silicates 146 (1992) 218
Oxides, X-ray Diffraction, Liquids 143 (1992) 201

Molecular Liquids
Medium-Range Order, Modelling, Neutron Time of Flight Diffraction 150 (1992) 58

Molten Salts
Computer Simulation, Dynamical Properties, Molecular Dynamics 150 (1992) 281
Dynamical Structure, Glass Formation, Inelastic Neutron Scattering 150 (1992) 287
Expanded Liquids, Short-Range Order, X-ray Diffraction 150 (1992) 40
Glass Transition, Low-Energy Excitation, Inelastic Neutron Scattering 150 (1992) 292

Monte Carlo simulations
Chalcogenides, EXAFS, Liquid Semiconductors 150 (1992) 351
Liquid Semiconductors, Medium-Range Order, Neutron Time of Flight Diffraction 150 (1992) 53
Liquid Semiconductors, Short-Range Order, X-ray Diffraction 150 (1992) 35
Quasicrystals, Theory 143 (1992) 225

Mössbauer Effect
Alloys, Gels, Differential Scanning Calorimetry, Crystallization 149 (1992) 275
Alloys, Glasses Containing Transition Metal Ions, Crystallization 143 (1992) 147
Alloys, Glasses Containing Transition Metal Ions, Hydrogen Effects 146 (1992) 63
Crystallization, Sol–Gel Method 147 & 148 (1992) 146

Multilayers
Amorphization, Solid State Reaction, Time Differential Perturbed Angular Correlation 150 (1992) 448

Nanocrystalline Materials
Dynamical Structure, Metallic Glasses, Phonons 150 (1992) 245

Natural Glasses
Annealing Effects, Crystallization, Metallic Glasses 150 (1992) 444
Chemical Durability, Hydrogenation 144 (1992) 224
Composites, Solid State Reaction, Transition Metals 150 (1992) 468
Mechanical Amorphization, Neutron Diffraction, X-ray Diffraction 150 (1992) 1
Mechanical Amorphization, Solid State Reaction, X-ray Diffraction 150 (1992) 478
Medium-Range Order, Small Angle X-ray Scattering, Silicon Carbide Fibers 150 (1992) 167

Neutron Brillouin Scattering
Neutron Diffraction, Nuclear Magnetic Resonance, Silicon Dioxide 150 (1992) 69

Neutron Diffraction
Amorphous Carbon, Tetrahedral Materials, Topological Short-Range Order 150 (1992) 126
Chalcogenides, Structure 143 (1992) 162
Ionic Conductivity, Local Environment, Phosphates 150 (1992) 80
Mechanical Amorphization, Natural Glasses, X-ray Diffraction 150 (1992) 1
Nuclear Magnetic Resonance, Neutron Brillouin Scattering, Silicon Dioxide 150 (1992) 69
Sol–Gel Precursors, Structure 149 (1992) 203

Neutron Time of Flight Diffraction
Aerogels, Modelling 145 (1992) 121
Aerogels, Small Angle X-ray Scattering 145 (1992) 105
Alkali Silicate Glasses, Computer Simulation, X-ray Diffraction 150 (1992) 92
Alkali Silicate Glasses, Mixed-Alkali Effect, Short-Range Order 150 (1992) 97
Chemical Short-Range Order, Local Environment, Metallic Glasses 150 (1992) 15
Light Scattering, Metallic Glasses, Chemical Short-Range Order 150 (1992) 10
Liquid Semiconductors, Medium-Range Order, Monte Carlo Simulations 150 (1992) 53
Metallic Glasses 144 (1992) 99
Molecular Liquids, Medium-Range Order, Modelling 150 (1992) 58

Nitridation
Aerogels 145 (1992) 99
Coatings, Ion Implantation, Sol–Gel Method 147 & 148 (1992) 451
Oxynitride Glasses, Sol–Gel Precursors, Sol–Gel Processes 149 (1992) 196
Oxynitride Glasses, Sol–Gel Processes 147 & 148 (1992) 309
Silicon Nitride, Hydrogen Effects, Thin Films 146 (1992) 190

Nitrogen
Ion Implantation, Chemical Durability 142 (1992) 159

Non-linear Optics
Aerogels, Organic–Inorganic Hybrids 147 & 148 (1992) 627
Sol–Gel Method, Orientational Correlation, Semiconductors 147 & 148 (1992) 331
Sol–Gel Processes, Absorption 147 & 148 (1992) 631

Nuclear Magnetic Resonance
Aerogels 145 (1992) 164
Borosilicates, Structure 146 (1992) 137
Glass Formation, Optical Waveguide, Short-Range Order 150 (1992) 192
Growth Kinetics, Sol–Gel Processes, Viscosity 147 & 148 (1992) 686
Hydrogen in Glass, Infra-red Absorption, Oxides 142 (1992) 103
Ionic Conductivity, Oxides, Phase Separation 146 (1992) 50
Luminescence, Alumina, Ultraviolet Absorption 147 & 148 (1992) 614
Mixed-Alkali Effect, Relaxation, Ionic Conductivity 146 (1992) 43
Neutron Diffraction, Neutron Brillouin Scattering, Silicon Dioxide 150 (1992) 69
Oxides, Structure 149 (1992) 209
Phosphates, Structure, Computer Simulation 143 (1992) 265
Phosphates, Structure, Glass Transition 143 (1992) 257

Polymers, Reactions, Sol–Gel Precursors 142 (1992) 94
Polymers, Reactions, Sol–Gel Precursors 142 (1992) 87
Silica, Solutions, X-ray Diffraction 147&148 (1992) 194
Sol–Gel Method, Silica, Carbon 147&148 (1992) 280
Sol–Gel Method 147&148 (1992) 167
Sol–Gel Precursors, Chromatography 147&148 (1992) 24
Sol–Gel Precursors, Oxides, Infra-red Absorption, Structure 142 (1992) 225
Sol–Gel Precursors, Phosphates, Sol–Gel Processes 143 (1992) 21
Sol–Gel Processes 145 (1992) 80
Sol–Gel Processes, Light Scattering, Structure 149 (1992) 161
Sol–Gel Processes, Oxides, Relaxation 146 (1992) 129
Sol–Gel Processes, Reactions, Kinetics 146 (1992) 111
Sol–Gel Processes, Silicon Alloys, Infra-red Absorption 144 (1992) 287
Sol–Gel Processes, X-ray Diffraction, Electron Microscopy 144 (1992) 298

Nuclear Quadrupole Resonances
Borates, Structure 144 (1992) 217

Nucleation
Crystallization, Modelling 146 (1992) 233
Crystallization, Oxides 144 (1992) 81
Ice, Electrolyte Aqueous Solutions, Small Angle Neutron Scattering 150 (1992) 413
Optical Properties, Phase Separation, Chalcogenides 144 (1992) 240
Surface Reactions, Theory 142 (1992) 126
Theory, Computer Simulation 146 (1992) 1

Optical Fibers
Aerogels, Thermal Properties 145 (1992) 233
Optical Properties, Magnetic Properties, Silicates 141 (1992) 47
Oxides, Rare Earth Ions, Fluorescence Spectra, Optical Properties 149 (1992) 229
Sol–Gel Processes, Thermal Properties 145 (1992) 207
Thin Films, Coatings 147&148 (1992) 404

Optical Properties
Aerogels 145 (1992) 141
Aerogels 145 (1992) 149
Applications, Doping 147&148 (1992) 808
Chalcogenides, Doping, Electron Spin Resonance 141 (1992) 24
Chalcogenides, Theory, Density of States 144 (1992) 70
Chalcohalides, Glass Transition, Fibers 146 (1992) 154
Colloids, Coatings, Silicates 147&148 (1992) 579
Densification, Optical Waveguide 147&148 (1992) 641
Deposition Techniques, Microstructure, Thin Films 150 (1992) 148
Expanded Liquids, Amorphous Solids, Applications 147&148 (1992) 739
Fermi Level, Oxides, Organic–Inorganic Hybrids 147&148 (1992) 621
Fluorides 142 (1992) 260
Ion Implantation, Silica 142 (1992) 287
Magnetic Properties, Optical Fibers, Silicates 141 (1992) 47
Optical Fibers, Oxides, Rare Earth Ions, Fluorescence Spectra 149 (1992) 229
Oxides, Light Scattering 149 (1992) 243
Oxides, Modelling 144 (1992) 76
Phase Separation, Nucleation, Chalcogenides 144 (1992) 240
Radiation Effects, Lasers 149 (1992) 102
Raman Spectra, Structure 141 (1992) 227
Rare-earth Ions, Phosphates 142 (1992) 171
Refractive Index, Density, Organic–Inorganic Hybrids 146 (1992) 159
Semiconductors, Photoinduced Effects 141 (1992) 35
Silica, Electron Spin Resonance, Radiation Effects 149 (1992) 122
Silicon 141 (1992) 3
Sol–Gel Method, Coatings, Electrical Properties 147&148 (1992) 409
Sol–Gel Precursors, Sol–Gel Processes 145 (1992) 60
Sol–Gel Processes, Absorption, Fluorescence Spectra 147&148 (1992) 508
Sol–Gel Processes, Colloids 142 (1992) 208
Sol–Gel Processes, Composites 147&148 (1992) 652
Sol–Gel Processes, Electron Spin Resonance 144 (1992) 111
Sol–Gel Processes, Magnetic Properties 147&148 (1992) 463
Sol–Gel Processes, Refractive Index, Oxides 146 (1992) 121
Sol–Gel Processes 147&148 (1992) 588
Sol–Gel Processes 147&148 (1992) 646
Thermal Properties, Oxides, Modelling 146 (1992) 145

Optical Waveguide
Densification, Optical Properties 147&148 (1992) 641
Glass Formation, Nuclear Magnetic Resonance, Short-Range Order 150 (1992) 192
Lasers, Metal–Non-metal Transition, Sol–Gel Method 147&148 (1992) 447

Organic–Inorganic Hybrids
Aerogels, Non-linear Optics 147&148 (1992) 627
Aerogels, Sol–Gel Precursors 145 (1992) 90

Fermi Level, Optical Properties, Oxides 147&148 (1992) 621
Luminescence, Glass Formation, Stability 147&148 (1992) 478
Refractive Index, Density, Optical Properties 146 (1992) 159
Sol–Gel Precursors, Structure 147&148 (1992) 1
Sol–Gel Processes, Metal Alkoxide, Reactions 147&148 (1992) 80
Sol–Gel Processes 147&148 (1992) 47

Orientational Correlation
Alloys, Liquid Metals, Phase Transition 150 (1992) 260
Sol–Gel Method, Non-linear Optics, Semiconductors 147&148 (1992) 331

Oxidation Reduction
Electron Spin Resonance, Oxides 149 (1992) 218
Sol–Gel Processes, Coatings 147&148 (1992) 467

Oxide Melts
Alkali Borate Glasses, Short-Range Order, X-ray Diffraction 150 (1992) 87

Oxides
Anomalous X-ray Scattering, Chemical Short-Range Order, Rare Earth Ions 150 (1992) 376
Coatings, Porosity 147&148 (1992) 499
Coatings, Sol–Gel Precursors 147&148 (1992) 346
Colloids, Chalcogenides, Electron Microscopy 143 (1992) 181
Colloids, Viscosity 147&148 (1992) 67
Crystallization, Differential Scanning Calorimetry, Sol–Gel Processes 150 (1992) 144
Crystallization, Nucleation 144 (1992) 81
Electrical Properties, Switching, Glasses Containing Transition Metal Ions 149 (1992) 249
Electron Spin Resonance, Oxidation Reduction 149 (1992) 218
Electron Spin Resonance, Sol–Gel Precursors, Glasses Containing Transition Metal Ions 149 (1992) 62
EXAFS, Structure 142 (1992) 81
Fermi Level, Optical Properties, Organic–Inorganic Hybrids 147&148 (1992) 621
Fibers, Glass Fibers, Viscosity 144 (1992) 107
Fluorescence Spectra, Rare Earth Ions, Lasers 144 (1992) 89
Fracture, Fractals 146 (1992) 249
Glasses Containing Transition Metal Ions, Electron Spin Resonance, Aerogels 146 (1992) 261
Glass Formation, Crystallization, X-ray Diffraction 150 (1992) 107
Glass Formation, Local Environment, Raman Spectra 150 (1992) 207
Hydrogen in Glass, Nuclear Magnetic Resonance, Infra-red Absorption 142 (1992) 103
Ionic Conductivity, Nuclear Magnetic Resonance, Phase Separation 146 (1992) 50
Magnetic Properties, Electron Spin Resonance 146 (1992) 256
Modelling, Molecular Dynamics, Silicates 146 (1992) 218
Modelling, Structure, Theory 146 (1992) 57
Nuclear Magnetic Resonance, Sol–Gel Processes, Relaxation 146 (1992) 129
Nuclear Magnetic Resonance, Structure 149 (1992) 209
Optical Fibers, Rare Earth Ions, Fluorescence Spectra, Optical Properties 149 (1992) 229
Optical Properties, Light Scattering 149 (1992) 243
Optical Properties, Modelling 144 (1992) 76
Optical Properties, Thermal Properties, Modelling 146 (1992) 145
Raman Spectra, Structure 144 (1992) 128
Sol–Gel Method, Superconductors 147&148 (1992) 711
Sol–Gel Precursors, Crystallization, Phase Transition 144 (1992) 269
Sol–Gel Precursors, Infra-red Absorption, Nuclear Magnetic Resonance, Structure 142 (1992) 225
Sol–Gel Precursors, Superconductors 147&148 (1992) 720
Sol–Gel Processes, Calorimetry 147&148 (1992) 554
Sol–Gel Processes, Glass Formation, Chalcogenides 147&148 (1992) 569
Sol–Gel Processes, Porosity, Glasses Containing Transition Metal Ions 143 (1992) 93
Sol–Gel Processes, Reactions 149 (1992) 179
Sol–Gel Processes, Refractive Index, Optical Properties 146 (1992) 121
Thermal Properties, Germania 147&148 (1992) 162
Thin Films, Sol–Gel Processes, Infra-red Absorption 144 (1992) 53
X-ray Diffraction, Molecular Dynamics, Liquids 143 (1992) 201
X-ray Diffraction, Structure, Modelling 143 (1992) 191

Oxynitride Glasses
Aerogels, Porosity 147&148 (1992) 386
Nitridation, Sol–Gel Processes 147&148 (1992) 309
Raman Spectra, Density of States 144 (1992) 145
Sol–Gel Precursors, Sol–Gel Processes, Nitridation 149 (1992) 196

Phase Separation
Ionic Conductivity, Oxides, Nuclear Magnetic Resonance 146 (1992) 50
Metallic Glasses, Internal Friction 142 (1992) 165

Optical Properties, Nucleation, Chalcogenides 144 (1992) 240
Porosity, Sol–Gel Method, Silica 147&148 (1992) 291

Phase Transition
Alloys, Liquid Metals, Orientational Correlation 150 (1992) 260
Computer Simulation, Clusters, Molecular Dynamics 150 (1992) 429
Sol–Gel Method, Sintering, Zirconia 147&148 (1992) 201
Sol–Gel Precursors, Oxides, Crystallization 144 (1992) 269
Sol–Gel Processes, Alumina 147&148 (1992) 565

Phonons
Alloys, Liquid Metals, Theory 150 (1992) 216
Amorphous Semiconductors, Chalcogenides, Raman Spectra 150 (1992) 197
Dynamical Structure, Metallic Glasses, Inelastic Neutron Scattering 150 (1992) 251
Dynamical Structure, Metallic Glasses, Nanocrystalline Materials 150 (1992) 245
Electronic Structure, Modelling, Semiconductors 141 (1992) 257
Infra-red Absorption, Inelastic Neutron Scattering, Silicon Carbide Fibers 150 (1992) 255
Raman Spectra, Density of States, Carbon, Germanium 141 (1992) 233
Silicon, Raman Spectra, Density of States 141 (1992) 265

Phosphates
Electronic Structure, Silicates, Theory 150 (1992) 318
Fluorescence Spectra, Fluorides, Doping 142 (1992) 148
Fluorescence Spectra, Rare-earth Ions 142 (1992) 175
Glasses Containing Transition Metal Ions, Infra-red Absorption, Structure 146 (1992) 74
Ionic Conductivity, Local Environment, Neutron Diffraction 150 (1992) 80
Nuclear Magnetic Resonance, Sol–Gel Precursors, Sol–Gel Processes 143 (1992) 21
Nuclear Magnetic Resonance, Structure, Computer Simulation 143 (1992) 265
Nuclear Magnetic Resonance, Structure, Glass Transition 143 (1992) 257
Rare-earth Ions, Optical Properties 142 (1992) 171
Silicates, Raman Spectra, Structure 143 (1992) 59
Sol–Gel Precursors 147&148 (1992) 18
Sol–Gel Processes, Differential Scanning Calorimetry, X-ray Diffraction 147&148 (1992) 537

Photochromism
Sol–Gel Processes, Tungstates 147&148 (1992) 313

Photoconductivity
Silicates 147&148 (1992) 574

Photo-emission
Silica, Silicates, Defects, Electronic Structure 149 (1992) 77

Photoinduced Effects
Amorphization, Chalcogenides, Medium-Range Order 150 (1992) 116
Defects, Hydrogenation 141 (1992) 204
Defects, Silica, Alloys, Luminescence 149 (1992) 96
Defects, Thermal Properties, Silicon 141 (1992) 166
Density of States, Chalcogenides 141 (1992) 188
Electric Properties, Time-of-Flight, Silicon 141 (1992) 133
Electronic Structure, Silica, Luminescence 149 (1992) 32
Photoresponse, Thermal Properties, Semiconductors 141 (1992) 123
Semiconductors, Density of States 141 (1992) 155
Semiconductors, Optical Properties 141 (1992) 35
Silicates, Colloids, Sol–Gel Processes 147&148 (1992) 326
Silicon, Electronic Structure 141 (1992) 176
Silicon, Hydrogenation, Electronic Structure 141 (1992) 16
Silicon, Thin Films, Theory 146 (1992) 175
Surface Properties, Silicon 141 (1992) 119
Transport Properties – Solids, Mobility, Silicon 141 (1992) 106

Photoresponse
Defects, Electron Interactions, Mobility 141 (1992) 142
Photoinduced Effects, Thermal Properties, Semiconductors 141 (1992) 123
Silicon, Hydrogen Effects, Alloys 141 (1992) 66
Silicon Alloys, Hydrogen Effects, Plasma Deposition 142 (1992) 108

Plasma Deposition
Silicon Alloys, Hydrogen Effects, Photoresponse 142 (1992) 108

Polymers
First Sharp Diffraction Peak, Medium-Range Order, Modelling 150 (1992) 136
Nuclear Magnetic Resonance, Reactions, Sol–Gel Precursors 142 (1992) 87
Nuclear Magnetic Resonance, Reactions, Sol–Gel Precursors 142 (1992) 94

Porosity
Aerogels, Oxynitride Glasses 147&148 (1992) 386
Coatings, Oxides 147&148 (1992) 499
Ellipsometry, Thin Films, Sol–Gel Processes 147&148 (1992) 424
Phase Separation, Sol–Gel Method, Silica 147&148 (1992) 291
Silica, Alumina 147&148 (1992) 141
Silica, Gels 149 (1992) 269
Sintering, Densification, Colloids 147&148 (1992) 582
Sol–Gel Processes, Oxides, Glasses Containing Transition Metal Ions 143 (1992) 93
Sol–Gel Processes, Silica, Structure 142 (1992) 36
Sol–Gel Processes, Structure 144 (1992) 45
Sol–Gel Processes, Surface Tension 144 (1992) 32
Sol–Gel Processes, Zirconia 147&148 (1992) 389

Pressure Effects
Amorphization, Germanium, Silicon 150 (1992) 49
Liquid Metals, Topological Short-Range Order, X-ray Diffraction 150 (1992) 25
Raman Spectra, Densification 144 (1992) 151

Pressure-Induced Structural Transformation
Amorphous Semiconductors, Solid State Reaction, Thermalization 150 (1992) 44

Pseudopotential Approach
Liquid Metals, Structure, Transition Metals 150 (1992) 314

Quasicrystals
Electric Properties, Stability, Theory 150 (1992) 337
Electron Diffraction, Structure, X-ray Diffraction 150 (1992) 327
Metallic Glasses, Dynamical Structure, Inelastic Neutron Scattering 150 (1992) 231
Monte Carlo simulations, Theory 143 (1992) 225
Structure, Stability, X-ray Diffraction 150 (1992) 322

Radiation Effects
Amorphous Solids 144 (1992) 95
Defects, Silica, Electron Spin Resonance 149 (1992) 27
Optical Properties, Lasers 149 (1992) 102
Silica, Electron Spin Resonance, Optical Properties 149 (1992) 122

Raman Spectra
Aerogels 145 (1992) 146
Aerogels, Structure 145 (1992) 63
Amorphous Semiconductors, Chalcogenides, Medium-Range Order 150 (1992) 202
Amorphous Semiconductors, Chalcogenides, Phonons 150 (1992) 197
Glass Formation, Local Environment, Oxides 150 (1992) 207
Infra-red Absorption, Silica, Reactions 143 (1992) 75
Molecular Dynamics, Borates, Infra-red Absorption, Density of States 146 (1992) 267
Optical Properties, Structure 141 (1992) 227
Oxides, Structure 144 (1992) 128
Oxynitride Glasses, Density of States 144 (1992) 145
Phonons, Density of States, Carbon, Germanium 141 (1992) 233
Phonons, Silicon, Density of States 141 (1992) 265
Phosphates, Silicates, Structure 143 (1992) 59
Pressure Effects, Densification 144 (1992) 151
Semiconductors, Glass Formation, Scanning Electron Microscopy 147&148 (1992) 251
Silica, Kinetics, Infra-red Absorption 147&148 (1992) 232
Thin Films, Titania, Silica 147&148 (1992) 123
Titania, Silicates 146 (1992) 213
Water in Glass, X-ray Diffraction, Structure 142 (1992) 234

Rare Earth Ions
Aerogels, Electron Microscopy 145 (1992) 71
Anomalous X-ray Scattering, Chemical Short-Range Order, Oxides 150 (1992) 376
Fibers, Lasers, Fluorides 143 (1992) 40
Fluorescence Spectra, Oxides, Lasers 144 (1992) 89
Fluorescence Spectra, Phosphates 142 (1992) 175
Glass Formation, Fluorescence Spectra, Local Environment 150 (1992) 185
Lasers, Fluorescence Spectra 143 (1992) 46
Luminescence 143 (1992) 252
Optical Fibers, Oxides, Fluorescence Spectra, Optical Properties 149 (1992) 229
Optical Properties, Phosphates 142 (1992) 171

Reactions
Defects, Silica, Thermal Properties 149 (1992) 54
Nuclear Magnetic Resonance, Polymers, Sol–Gel Precursors 142 (1992) 87
Nuclear Magnetic Resonance, Polymers, Sol–Gel Precursors 142 (1992) 94
Raman Spectra, Infra-red Absorption, Silica 143 (1992) 75
Sol–Gel Processes, Metal Alkoxide, Organic–Inorganic Hybrids 147&148 (1992) 80
Sol–Gel Processes, Microstructure 143 (1992) 112
Sol–Gel Processes, Nuclear Magnetic Resonance, Kinetics 146 (1992) 111
Sol–Gel Processes, Oxides 149 (1992) 179
Sol–Gel Processes, Silicates 142 (1992) 215

Refractive Index
Density, Optical Properties, Organic–Inorganic Hybrids 146 (1992) 159
Expansion, Gradient Index, Sol–Gel Method 147&148 (1992) 606

Silicon Nitride, Thin Films, Infra-red Absorption, Electronic Structure 144 (1992) 261
Sol–Gel Processes, Optical Properties, Oxides 146 (1992) 121
Theory, Glass Fibers 146 (1992) 165

Relaxation
Dielectric Properties, Modelling 144 (1992) 14
Dielectric Properties, Modelling 144 (1992) 1
Electrical Properties and Relaxation, Theory, Computer Simulation 144 (1992) 21
Glasses Containing Transition Metal Ions, Acoustic Properties 144 (1992) 159
Light Scattering, Ionic Conductivity 143 (1992) 274
Mixed-Alkali Effect, Nuclear Magnetic Resonance, Ionic Conductivity 146 (1992) 43
Modelling, Glass Transition, Mechanical Properties 146 (1992) 225
Nuclear Magnetic Resonance, Sol–Gel Processes, Oxides 146 (1992) 129
Silicon, Hydrogen in Glass, Electronic Conductivity 141 (1992) 76
Stress Relaxation, Theory 142 (1992) 133

Scanning Electron Microscopy
EXAFS, Mechanical Amorphization, X-ray Diffraction 150 (1992) 487
Semiconductors, Raman Spectra, Glass Formation 147&148 (1992) 251

Scanning Tunneling Microscopy
Amorphous Semiconductors, Chalcogenides, Surface Analysis 150 (1992) 435

Semiconductors
Colloids, Sol–Gel Method 147&148 (1992) 657
Density of States, Photoinduced Effects 141 (1992) 155
Electronic Structure, Phonons, Modelling 141 (1992) 257
Optical Properties, Photoinduced Effects 141 (1992) 35
Photoinduced Effects, Photoresponse, Thermal Properties 141 (1992) 123
Raman Spectra, Glass Formation, Scanning Electron Microscopy 147&148 (1992) 251
Sol–Gel Method, Non-linear Optics, Orientational Correlation 147&148 (1992) 331

Short-Range Order
Alkali Borate Glasses, Oxide Melts, X-ray Diffraction 150 (1992) 87
Alkali Silicate Glasses, Mixed-Alkali Effect, Neutron Time of Flight Diffraction 150 (1992) 97
Amorphization, Sputtering, X-ray Diffraction 150 (1992) 391
Amorphous Semiconductors, Anomalous X-ray Scattering, EXAFS 150 (1992) 361
Amorphous Semiconductors, Anomalous X-ray Scattering, Medium-Range Order 150 (1992) 366
Annealing Effects, Alkali Borate Glasses, X-ray Diffraction 150 (1992) 76
Expanded Liquids, Molten Salts, X-ray Diffraction 150 (1992) 40
Glass Formation, Nuclear Magnetic Resonance, Optical Waveguide 150 (1992) 192
Liquid Semiconductors, Monte Carlo Simulations, X-ray Diffraction 150 (1992) 35
Metallic Glasses, Mechanical Amorphization, Splat-cooling 150 (1992) 483
Silicon Alloys, X-ray Diffraction, Structure 142 (1992) 70

Silica
Alumina, Membranes, Sol–Gel Processes 147&148 (1992) 548
Annealing Effects, Thin Films 147&148 (1992) 437
Colloids, Sol–Gel Processes, Electron Microscopy 147&148 (1992) 320
Defects, Alloys, Photoinduced Effects, Luminescence 149 (1992) 96
Defects, Electron Spin Resonance, Radiation Effects 149 (1992) 27
Defects, Fluorescence Spectra, Lasers 149 (1992) 115
Defects, Lasers 149 (1992) 107
Defects, Theory, Electronic Structure 149 (1992) 5
Defects, Thermal Properties, Reactions 149 (1992) 54
Elastic Properties, Mechanical Properties, Thermal Properties 143 (1992) 65
Electronic Structure, Photoinduced Effects, Luminescence 149 (1992) 32
Electron Spin Resonance, Defects 149 (1992) 137
Electron Spin Resonance, Optical Properties, Radiation Effects 149 (1992) 122
Electron Spin Resonance, Silicates, Sol–Gel Processes 147&148 (1992) 106
Fibers, Sol–Gel Processes, Strength 143 (1992) 31
Hardness 146 (1992) 197
Impurity Conduction, Sol–Gel Processes, Structure 147&148 (1992) 222
Infra-red Absorption, Sol–Gel Processes, Fibers 146 (1992) 81
Ion Implantation, Optical Properties 142 (1992) 287
Kinetics, Raman Spectra, Infra-red Absorption 147&148 (1992) 232
Luminescence, Electronic Structure 143 (1992) 246
Luminescence, Electron Spin Resonance, Defects, Interfaces 149 (1992) 46
Phase Separation, Porosity, Sol–Gel Method 147&148 (1992) 291

Photo-emission, Silicates, Defects, Electronic Structure 149 (1992) 77
Porosity, Alumina 147&148 (1992) 141
Porosity, Gels 149 (1992) 269
Raman Spectra, Infra-red Absorption, Reactions 143 (1992) 75
Raman Spectra, Thin Films, Titania 147&148 (1992) 123
Sol–Gel Method, Nuclear Magnetic Resonance, Carbon 147&148 (1992) 280
Sol–Gel Method 147&148 (1992) 56
Sol–Gel Processes 142 (1992) 45
Sol–Gel Processes, Mechanical Properties, Aerogels 147&148 (1992) 699
Sol–Gel Processes, Small Angle X-ray Scattering 147&148 (1992) 296
Sol–Gel Processes, Structure, Porosity 142 (1992) 36
Sol–Gel Processes, Transient Effects, Thermal Properties 142 (1992) 189
Sol–Gel Processes, Transient Effects, Thermal Properties 142 (1992) 197
Solutions, X-ray Diffraction, Nuclear Magnetic Resonance 147&148 (1992) 194
Thin Films, Sol–Gel Processes 147&148 (1992) 488

Silicates
Colloids, Coatings, Optical Properties 147&148 (1992) 579
Colloids, Sol–Gel Processes, Photoinduced Effects 147&148 (1992) 326
Densification, Sol–Gel Processes, X-ray Diffraction 147&148 (1992) 532
Electronic Structure, Phosphates, Theory 150 (1992) 318
Electron Microscopy, Sol–Gel Method, Sol–Gel Processes 147&148 (1992) 303
Electron Spin Resonance, Silica, Sol–Gel Processes 147&148 (1992) 106
Ionic Conductivity, Sol–Gel Method, Electric Properties 147&148 (1992) 668
Modelling, Molecular Dynamics, Oxides 146 (1992) 218
Optical Properties, Magnetic Properties, Optical Fibers 141 (1992) 47
Phosphates, Raman Spectra, Structure 143 (1992) 59
Photoconductivity 147&148 (1992) 574
Photo-emission, Silica, Defects, Electronic Structure 149 (1992) 77
Sol–Gel Processes, Catalysis 143 (1992) 14
Sol–Gel Processes, Reactions 142 (1992) 215
Surface Properties, Infra-red Absorption, Water in Glass 147&148 (1992) 115
Thin Films, Hydrogen Effects, XANES, EXAFS 142 (1992) 113
Titania, Raman Spectra 146 (1992) 213

Silicon
Alloys, Germanium, Structure 141 (1992) 53
Amorphization, Germanium, Pressure Effects 150 (1992) 49
Amorphous Semiconductors, EXAFS, Local Environment 150 (1992) 347
Defects, Photoinduced Effects, Thermal Properties 141 (1992) 166
Density of States, Hydrogenation, Electron Interactions 143 (1992) 241
Dynamical Structure, Electron Microscopy, Electron Irradiation 150 (1992) 423
Excitons, Hydrogenation 141 (1992) 97
Hydrogenation, Photoinduced Effects, Electronic Structure 141 (1992) 16
Hydrogen Effects, Infra-red Absorption 149 (1992) 257
Hydrogen in Glass, Electronic Conductivity, Relaxation 141 (1992) 76
Optical Properties 141 (1992) 3
Phonons, Raman Spectra, Density of States 141 (1992) 265
Photoinduced Effects, Electric Properties, Time-of-Flight 141 (1992) 133
Photoinduced Effects, Electronic Structure 141 (1992) 176
Photoinduced Effects, Transport Properties – Solids, Mobility 141 (1992) 106
Photoresponse, Hydrogen Effects, Alloys 141 (1992) 66
Surface Properties, Photoinduced Effects 141 (1992) 119
Theory, Doping 143 (1992) 232
Thin Films, Electronic Structure, Electrical Properties 149 (1992) 264
Thin Films, Photoinduced Effects, Theory 146 (1992) 175
Time-of-Flight, Defects, Thermal Properties 141 (1992) 162

Silicon Alloys
Dielectric Properties, Silicon Nitride, Theory 143 (1992) 207
Hydrogen Effects, Photoresponse, Plasma Deposition 142 (1992) 108
Short-Range Order, X-ray Diffraction, Structure 142 (1992) 70
Sol–Gel Processes, Nuclear Magnetic Resonance, Infra-red Absorption 144 (1992) 287

Silicon Carbide Fibers
Crystallization, Metallic Glasses, Small Angle X-ray Scattering 150 (1992) 172
Infra-red Absorption, Inelastic Neutron Scattering, Phonons 150 (1992) 255

Medium-Range Order, Natural Glasses, Small Angle X-ray Scattering 150 (1992) 167

Silicon Dioxide
Dynamical Structure, Glass Formation, Inelastic Neutron Scattering 150 (1992) 239
Modelling, Structure, X-ray Diffraction 150 (1992) 65
Neutron Diffraction, Nuclear Magnetic Resonance, Neutron Brillouin Scattering 150 (1992) 69

Silicon Nitride
Computer Simulation, Molecular Dynamics, Structure 150 (1992) 120
Dielectric Properties, Silicon Alloys, Theory 143 (1992) 207
Nitridation, Hydrogen Effects, Thin Films 146 (1992) 190
Thin Films, Infra-red Absorption, Electronic Structure, Refractive Index 144 (1992) 261

Sintering
Densification, Porosity, Colloids 147&148 (1992) 582
Mechanical Properties, Aerogels, Small Angle Neutron Scattering 147&148 (1992) 672
Sol–Gel Method, Alumina, Crystallization 147&148 (1992) 245
Sol–Gel Method, Zirconia, Phase Transition 147&148 (1992) 201
Sol–Gel Processes 143 (1992) 133
Sol–Gel Processes, Glass Ceramics, Mechanical Properties 147&148 (1992) 559

Small Angle Neutron Scattering
Aerogels 145 (1992) 128
Chalcogenides, X-ray Diffraction, Structure 142 (1992) 63
Hydrogenation, Mechanical Amorphization, Structure 150 (1992) 153
Mechanical Properties, Aerogels, Sintering 147&148 (1992) 672
Nucleation, Ice, Electrolyte Aqueous Solutions 150 (1992) 413
Small Angle X-ray Scattering, Aerogels 145 (1992) 133
Sol–Gel Processes, Fractals, Electron Microscopy 147&148 (1992) 382

Small Angle X-ray Scattering
Aerogels, Neutron Time of Flight Diffraction 145 (1992) 105
Aerogels, Theory 145 (1992) 113
Amorphous Semiconductors, Fractals, Solar Cells 150 (1992) 163
Crystallization, Metallic Glasses, Silicon Carbide Fibers 150 (1992) 172
Crystallization, Sol–Gel Precursors, X-ray Diffraction 147&148 (1992) 152
Fabrication, Metal Alkoxide, Sol–Gel Processes 147&148 (1992) 189
Fractals, Metal Alkoxide, Sol–Gel Processes 150 (1992) 157
Medium-Range Order, Natural Glasses, Silicon Carbide Fibers 150 (1992) 167
Small Angle Neutron Scattering, Aerogels 145 (1992) 133
Sol–Gel Method, Kinetics 147&148 (1992) 206
Sol–Gel Method, Zirconia, Catalysis 147&148 (1992) 41
Sol–Gel Method, Zirconia 147&148 (1992) 127
Sol–Gel Processes, Infra-red Absorption 147&148 (1992) 157
Sol–Gel Processes, Silica 147&148 (1992) 296
Sol–Gel Processes, Sol–Gel Precursors, Densification 142 (1992) 181
Sol–Gel Processes, Viscosity 144 (1992) 277
Sol–Gel Processes, Zirconia 147&148 (1992) 542
Titania, Kinetics, Fractals 147&148 (1992) 92
Transport Properties – Liquids, Drying Control Additive, Kinetics 147&148 (1992) 238
Zirconia, Colloids, Thin Films 147&148 (1992) 503

Solar Cells
Amorphous Semiconductors, Fractals, Small Angle X-ray Scattering 150 (1992) 163

Sol–Gel Method
Borosilicates, Coatings 147&148 (1992) 474
Catalysis 147&148 (1992) 753
Coatings 145 (1992) 51
Coatings, Ion Implantation, Nitridation 147&148 (1992) 451
Coatings, Optical Properties, Electrical Properties 147&148 (1992) 409
Colloids, Semiconductors 147&148 (1992) 657
Drying 145 (1992) 25
Drying, Membranes, Titania 147&148 (1992) 375
Electrochemical Properties, Coatings 147&148 (1992) 792
Electron Microscopy, Silicates, Sol–Gel Processes 147&148 (1992) 303
EXAFS, XANES, Alumina 147&148 (1992) 135
Ionic Conductivity, Electric Properties, Silicates 147&148 (1992) 668
Lasers, Densification, Coatings 147&148 (1992) 457
Lasers, Metal–Non-metal Transition, Optical Waveguide 147&148 (1992) 447
Lasers 147&148 (1992) 636
Modelling, Viscosity 145 (1992) 20
Mössbauer Effect, Crystallization 147&148 (1992) 146
Non-linear Optics, Orientational Correlation, Semiconductors 147&148 (1992) 331
Nuclear Magnetic Resonance 147&148 (1992) 167

Oxides, Superconductors 147&148 (1992) 711
Phase Separation, Porosity, Silica 147&148 (1992) 291
Refractive Index, Expansion, Gradient Index 147&148 (1992) 606
Silica, Nuclear Magnetic Resonance, Carbon 147&148 (1992) 280
Silica 147&148 (1992) 56
Sintering, Alumina, Crystallization 147&148 (1992) 245
Sintering, Zirconia, Phase Transition 147&148 (1992) 201
Small Angle X-ray Scattering, Kinetics 147&148 (1992) 206
Small Angle X-ray Scattering, Zirconia, Catalysis 147&148 (1992) 41
Small Angle X-ray Scattering, Zirconia 147&148 (1992) 127
Theory, Drying 147&148 (1992) 363
Titania 145 (1992) 175
Topology, Amorphous Solids, Colloids 147&148 (1992) 183

Sol–Gel Precursors
Aerogels, Organic–Inorganic Hybrids 145 (1992) 90
Carbon 147&148 (1992) 52
Coatings, Oxides 147&148 (1992) 346
Crystallization, Small Angle X-ray Scattering, X-ray Diffraction 147&148 (1992) 152
Electron Spin Resonance, Oxides, Glasses Containing Transition Metal Ions 149 (1992) 62
Kinetics 147&148 (1992) 102
Neutron Diffraction, Structure 149 (1992) 203
Nuclear Magnetic Resonance, Chromatography 147&148 (1992) 24
Nuclear Magnetic Resonance, Phosphates, Sol–Gel Processes 143 (1992) 21
Nuclear Magnetic Resonance, Polymers, Reactions 142 (1992) 94
Nuclear Magnetic Resonance, Polymers, Reactions 142 (1992) 87
Organic–Inorganic Hybrids, Structure 147&148 (1992) 1
Oxides, Crystallization, Phase Transition 144 (1992) 269
Oxides, Infra-red Absorption, Nuclear Magnetic Resonance, Structure 142 (1992) 225
Oxides, Superconductors 147&148 (1992) 720
Oxynitride Glasses, Sol–Gel Processes, Nitridation 149 (1992) 196
Phosphates 147&148 (1992) 18
Sol–Gel Precursors 145 (1992) 1
Sol–Gel Processes, Optical Properties 145 (1992) 60
Sol–Gel Processes, Small Angle X-ray Scattering, Densification 142 (1992) 181
Viscosity, Alumina, Stress Measurement 147&148 (1992) 690

Sol–Gel Processes
Aerogels 145 (1992) 41
Aerogels 145 (1992) 44
Aerogels 145 (1992) 75
Aerogels, Structure 143 (1992) 1
Aerogels, Structure 145 (1992) 185
Alumina, Membranes, Silica 147&148 (1992) 548
Alumina, Phase Transition 147&148 (1992) 565
Alumina 147&148 (1992) 213
Alumina 147&148 (1992) 598
Catalysis, Silicates 143 (1992) 14
Catalysis 147&148 (1992) 724
Catalysis 147&148 (1992) 758
Catalysis 147&148 (1992) 769
Chemical Modification 145 (1992) 55
Coatings, Chemical Modification, Infra-red Absorption 147&148 (1992) 350
Coatings, Oxidation Reduction 147&148 (1992) 467
Coatings 147&148 (1992) 285
Colloids, Electrical Properties 147&148 (1992) 803
Colloids, Optical Properties 142 (1992) 208
Colloids, Silica, Electron Microscopy 147&148 (1992) 320
Composites, Optical Properties 147&148 (1992) 652
Composites 147&148 (1992) 783
Contacts, Dielectric Properties, Microstructure 147&148 (1992) 74
Crystallization, Differential Scanning Calorimetry, Oxides 150 (1992) 144
Crystallization 147&148 (1992) 266
Densification, Silicates, X-ray Diffraction 147&148 (1992) 532
Dielectric Properties, Electrical Properties and Relaxation 147&148 (1992) 493
Elastic Properties, Liquids, Transport Properties – Gel, Transport Properties – Liquids 142 (1992) 18
Electron Microscopy, Silicates, Sol–Gel Method 147&148 (1992) 303
Electron Spin Resonance, Glasses Containing Transition Metal Ions 149 (1992) 189
Electron Spin Resonance, Glasses Containing Transition Metal Ions, Surface Properties 146 (1992) 97
Electron Spin Resonance, Silica, Silicates 147&148 (1992) 106
Emulsions, Memory Behaviour 147&148 (1992) 30
Fibers, Strength, Silica 143 (1992) 31
Fibers 147&148 (1992) 394
Fractals, Electron Microscopy, Small Angle Neutron Scattering 147&148 (1992) 382
Fractals, Metal Alkoxide, Small Angle X-ray Scattering 150 (1992) 157
Glass Ceramics, Sintering, Mechanical Properties 147&148 (1992) 559
Glass Formation, Crystallization 147&148 (1992) 820
Glass Formation, Oxides, Chalcogenides 147&148 (1992) 569

Growth Kinetics, Nuclear Magnetic Resonance, Viscosity 147&148 (1992) 686
Halide Glasses 146 (1992) 301
Impurity Conduction, Silica, Structure 147&148 (1992) 222
Impurity Conduction, X-ray Diffraction 147&148 (1992) 36
Infra-red Absorption, Small Angle X-ray Scattering 147&148 (1992) 157
Kinetics 147&148 (1992) 13
Light Scattering, Nuclear Magnetic Resonance, Structure 149 (1992) 161
Mechanical Properties, Aerogels, Silica 147&148 (1992) 699
Membranes 147&148 (1992) 518
Metal Alkoxide, Reactions, Organic–Inorganic Hybrids 147&148 (1992) 80
Modelling 142 (1992) 1
Nitridation, Oxynitride Glasses 147&148 (1992) 309
Non-linear Optics, Absorption 147&148 (1992) 631
Nuclear Magnetic Resonance 145 (1992) 80
Nuclear Magnetic Resonance, Oxides, Relaxation 146 (1992) 129
Nuclear Magnetic Resonance, Reactions, Kinetics 146 (1992) 111
Nuclear Magnetic Resonance, Sol–Gel Precursors, Phosphates 143 (1992) 21
Optical Properties, Absorption, Fluorescence Spectra 147&148 (1992) 508
Optical Properties, Electron Spin Resonance 144 (1992) 111
Optical Properties, Magnetic Properties 147&148 (1992) 463
Optical Properties 147&148 (1992) 646
Optical Properties 147&148 (1992) 588
Organic–Inorganic Hybrids 147&148 (1992) 47
Oxides, Calorimetry 147&148 (1992) 554
Oxynitride Glasses, Sol–Gel Precursors, Nitridation 149 (1992) 196
Phosphates, Differential Scanning Calorimetry, X-ray Diffraction 147&148 (1992) 537
Photochromism, Tungstates 147&148 (1992) 313
Porosity, Ellipsometry, Thin Films 147&148 (1992) 424
Porosity, Oxides, Glasses Containing Transition Metal Ions 143 (1992) 93
Porosity, Structure 144 (1992) 45
Porosity, Zirconia 147&148 (1992) 389
Reactions, Microstructure 143 (1992) 112
Reactions, Oxides 149 (1992) 179
Refractive Index, Optical Properties, Oxides 146 (1992) 121
Silica 142 (1992) 45
Silica, Infra-red Absorption, Fibers 146 (1992) 81
Silica, Small Angle X-ray Scattering 147&148 (1992) 296
Silica, Structure, Porosity 142 (1992) 36
Silica, Thin Films 147&148 (1992) 488
Silica, Transient Effects, Thermal Properties 142 (1992) 189
Silica, Transient Effects, Thermal Properties 142 (1992) 197
Silicates, Colloids, Photoinduced Effects 147&148 (1992) 326
Silicates, Reactions 142 (1992) 215
Silicon Alloys, Nuclear Magnetic Resonance, Infra-red Absorption 144 (1992) 287
Sintering 143 (1992) 133
Small Angle X-ray Scattering, Fabrication, Metal Alkoxide 147&148 (1992) 189
Sol–Gel Precursors, Optical Properties 145 (1992) 60
Sol–Gel Precursors, Small Angle X-ray Scattering, Densification 142 (1992) 181
Sol–Gel Processes 145 (1992) 11
Sol–Gel Processes 145 (1992) 33
Sol–Gel Processes 147&148 (1992) 748
Structure 143 (1992) 121
Structure, Applications 147&148 (1992) 271
Superconductors, Transport Properties – Devices, Magnetic Properties 147&148 (1992) 704
Surface Tension, Porosity 144 (1992) 32
Thermal Properties, Optical Fibers 145 (1992) 207
Thin Films, Oxides, Infra-red Absorption 144 (1992) 53
Thin Films, Theory 144 (1992) 305
Tin Oxide, Drying 147&148 (1992) 340
Titania, Infra-red Absorption, X-ray Diffraction 147&148 (1992) 256
Titania 147&148 (1992) 62
Viscosity, Small Angle X-ray Scattering 144 (1992) 277
Viscosity 147&148 (1992) 85
Viscosity 147&148 (1992) 695
X-ray Diffraction, Nuclear Magnetic Resonance, Electron Microscopy 144 (1992) 298
Zirconia, Small Angle X-ray Scattering 147&148 (1992) 542

Solid State Reaction

Alloys, Mechanical Amorphization, Transition Metals 150 (1992) 456
Alloys, Mechanical Amorphization, Transition Metals 150 (1992) 464
Amorphization, Multilayers, Time Differential Perturbed Angular Correlation 150 (1992) 448
Amorphous Semiconductors, Pressure-Induced Structural Transformation, Thermalization 150 (1992) 44
Composites, Natural Glasses, Transition Metals 150 (1992) 468

Differential Scanning Calorimetry, Electron Microscopy, Mechanical Amorphization 150 (1992) 472
Hydrogenation, Mechanical Amorphization, X-ray Diffraction 150 (1992) 452
Mechanical Amorphization, Natural Glasses, X-ray Diffraction 150 (1992) 478

Solutions
Dynamical Properties, Inelastic Neutron Scattering, Liquids 150 (1992) 297
Silica, X-ray Diffraction, Nuclear Magnetic Resonance 147&148 (1992) 194

Splat-cooling
Metallic Glasses, Mechanical Amorphization, Short-Range Order 150 (1992) 483

Sputtering
Amorphization, Short-Range Order, X-ray Diffraction 150 (1992) 391
Magnetic Properties, Thin Films, X-ray Diffraction 150 (1992) 21

Stability
Electric Properties, Quasicrystals, Theory 150 (1992) 337
Organic–Inorganic Hybrids, Luminescence, Glass Formation 147&148 (1992) 478
Quasicrystals, Structure, X-ray Diffraction 150 (1992) 322

Strength
Fibers, Sol–Gel Processes, Silica 143 (1992) 31

Stress Measurement
Sol–Gel Precursors, Viscosity, Alumina 147&148 (1992) 690

Stress Relaxation
Gels, Mechanical Properties, Theory 144 (1992) 210
Theory, Relaxation 142 (1992) 133

Structural Relaxation
Anomalous X-ray Scattering, Local Environment, Metallic Glasses 150 (1992) 380
Chemical Short-Range Order, Metallic Glasses, Transition Metals 150 (1992) 419
Crystallization, Differential Scanning Calorimetry, Mechanical Amorphization 150 (1992) 460
Crystallization, Internal Friction, Metallic Glasses 150 (1992) 406
Differential Scanning Calorimetry, Glass Transition, Metallic Glasses 150 (1992) 396
Dynamical Structure, Glass Transition, Electrolyte Aqueous Solutions 150 (1992) 275
Glass Transition, Metallic Glasses, Mechanical Properties 150 (1992) 401

Structure
Acoustic Properties, Aerogels 145 (1992) 217
Aerogels, Raman Spectra 145 (1992) 63
Aerogels, Sol–Gel Processes 143 (1992) 1
Aerogels, Sol–Gel Processes 145 (1992) 185
Alloys, Germanium, Silicon 141 (1992) 53
Alloys, Theory 146 (1992) 294
Borosilicates, Nuclear Magnetic Resonance 146 (1992) 137
Chalcogenides, Glass Transition, Chemical Modification 143 (1992) 52
Chalcogenides, Small Angle Neutron Scattering, X-ray Diffraction 142 (1992) 63
Chalcogenides, Thin Films, Electron Microscopy 144 (1992) 253
Chalcogenides, Thin Films, EXAFS 144 (1992) 63
Computer Simulation, Molecular Dynamics, Silicon Nitride 150 (1992) 120
Drying, Mechanical Properties 147&148 (1992) 442
Electron Diffraction, Quasicrystals, X-ray Diffraction 150 (1992) 327
Electronic Conductivity 147&148 (1992) 663
EXAFS, Oxides 142 (1992) 81
Germanium, Hydrogenation, Thin Films 141 (1992) 271
Glass Formation, Thermal Properties, Two-Level system 150 (1992) 179
Hydrogenation, Mechanical Amorphization, Small Angle Neutron Scattering 150 (1992) 153
Impurity Conduction, Silica, Sol–Gel Processes 147&148 (1992) 222
Liquid Metals, Pseudopotential Approach, Transition Metals 150 (1992) 314
Modelling, Silicon Dioxide, X-ray Diffraction 150 (1992) 65
Modelling, Theory, Oxides 146 (1992) 57
Molecular Dynamics, Alloys, Glasses Containing Transition Metal Ions 144 (1992) 175
Neutron Diffraction, Chalcogenides 143 (1992) 162
Neutron Diffraction, Sol–Gel Precursors 149 (1992) 203
Nuclear Magnetic Resonance, Oxides 149 (1992) 209
Nuclear Magnetic Resonance, Phosphates, Computer Simulation 143 (1992) 265
Nuclear Magnetic Resonance, Phosphates, Glass Transition 143 (1992) 257
Nuclear Quadrupole Resonances, Borates 144 (1992) 217
Optical Properties, Raman Spectra 141 (1992) 227

Phosphates, Glasses Containing Transition Metal Ions, Infra-red Absorption 146 (1992) 74
Phosphates, Silicates, Raman Spectra 143 (1992) 59
Quasicrystals, Stability, X-ray Diffraction 150 (1992) 322
Raman Spectra, Oxides 144 (1992) 128
Silicon Alloys, Short-Range Order, X-ray Diffraction 142 (1992) 70
Sol–Gel Precursors, Organic–Inorganic Hybrids 147&148 (1992) 1
Sol–Gel Precursors, Oxides, Infra-red Absorption, Nuclear Magnetic Resonance 142 (1992) 225
Sol–Gel Processes 143 (1992) 121
Sol–Gel Processes, Applications 147&148 (1992) 271
Sol–Gel Processes, Light Scattering, Nuclear Magnetic Resonance 149 (1992) 161
Sol–Gel Processes, Porosity 144 (1992) 45
Sol–Gel Processes, Silica, Porosity 142 (1992) 36
Theory, Modelling 144 (1992) 203
Water in Glass, X-ray Diffraction, Raman Spectra 142 (1992) 234
X-ray Diffraction, Oxides, Modelling 143 (1992) 191

Superconductors
Crystallization, Thermal Properties 146 (1992) 240
Oxides, Sol–Gel Method 147&148 (1992) 711
Sol–Gel Precursors, Oxides 147&148 (1992) 720
Sol–Gel Processes, Transport Properties – Devices, Magnetic Properties 147&148 (1992) 704
Thin Films 147&148 (1992) 715

Surface Analysis
Amorphous Semiconductors, Chalcogenides, Scanning Tunneling Microscopy 150 (1992) 435
Catalysis, Electron Microscopy, Metallic Glasses 150 (1992) 440

Surface Properties
Crystallization, Interfaces 143 (1992) 84
Silicates, Infra-red Absorption, Water in Glass 147&148 (1992) 115
Silicon, Photoinduced Effects 141 (1992) 119
Sol–Gel Processes, Electron Spin Resonance, Glasses Containing Transition Metal Ions 146 (1992) 97

Surface Reactions
Dielectric Properties, Aerogels 145 (1992) 168
Nucleation, Theory 142 (1992) 126

Surface Tension
Sol–Gel Processes, Porosity 144 (1992) 32

Switching
Electrical Properties, Oxides, Glasses Containing Transition Metal Ions 149 (1992) 249

Tetrahedral Materials
Amorphous Carbon, Neutron Diffraction, Topological Short-Range Order 150 (1992) 126

Theory
Aerogels, Small Angle X-ray Scattering 145 (1992) 113
Alloys, Liquid Metals, Local Environment 150 (1992) 266
Alloys, Liquid Metals, Phonons 150 (1992) 216
Alloys, Structure 146 (1992) 294
Chalcogenides, Density of States, Optical Properties 144 (1992) 70
Defects 149 (1992) 19
Defects, Silica, Electronic Structure 149 (1992) 5
Dielectric Properties, Silicon Alloys, Silicon Nitride 143 (1992) 207
Dynamical Structure, Low-Energy Excitation, Medium-Range Order 150 (1992) 212
Electrical Properties and Relaxation, Computer Simulation, Relaxation 144 (1992) 21
Electric Properties, Quasicrystals, Stability 150 (1992) 337
Electronic Structure, Metallic Glasses, Transition Metals 150 (1992) 307
Electronic Structure, Phosphates, Silicates 150 (1992) 318
Gels, Mechanical Properties, Stress Relaxation 144 (1992) 210
Germanium, Electron Interactions, Hydrogen Effects 144 (1992) 115
Infra-red Absorption, Aerogels 145 (1992) 154
Liquids, Melting, Topological Short-Range Order 150 (1992) 271
Modelling, Structure, Oxides 146 (1992) 57
Modelling, Thermal Properties, Electronic Structure, Defects 149 (1992) 1
Nucleation, Computer Simulation 146 (1992) 1
Nucleation, Surface Reactions 142 (1992) 126
Quasicrystals, Monte Carlo simulations 143 (1992) 225
Refractive Index, Glass Fibers 146 (1992) 165
Silicon, Doping 143 (1992) 232
Silicon, Thin Films, Photoinduced Effects 146 (1992) 175
Sol–Gel Method, Drying 147&148 (1992) 363
Sol–Gel Processes, Thin Films 144 (1992) 305
Stress Relaxation, Relaxation 142 (1992) 133
Structure, Modelling 144 (1992) 203
Thermal Properties 145 (1992) 136
Two-Level system, Acoustic Properties, Thermal Properties 146 (1992) 90

Thermal Conductivity
Aerogels, Heat Capacity, Modelling 145 (1992) 202
Aerogels 147&148 (1992) 356
Modelling 145 (1992) 196
Modelling, Glass Transition 145 (1992) 191

Thermalization
Amorphous Semiconductors, Pressure-Induced Structural Transformation, Solid State Reaction 150 (1992) 44
Carbon, Electronic Conductivity, Hopping 144 (1992) 231

Thermal Properties
Aerogels 145 (1992) 211
Aerogels 145 (1992) 237
Aerogels, Optical Fibers 145 (1992) 233
Alloys, Crystallization 144 (1992) 308
Chalcogenides, Thin Films, Modelling 144 (1992) 247
Defects, Photoinduced Effects, Silicon 141 (1992) 166
Defects, Silica, Reactions 149 (1992) 54
Glass Formation, Structure, Two-Level system 150 (1992) 179
Optical Properties, Oxides, Modelling 146 (1992) 145
Oxides, Germania 147&148 (1992) 162
Photoinduced Effects, Photoresponse, Semiconductors 141 (1992) 123
Silica, Elastic Properties, Mechanical Properties 143 (1992) 65
Sol–Gel Processes, Optical Fibers 145 (1992) 207
Sol–Gel Processes, Silica, Transient Effects 142 (1992) 197
Sol–Gel Processes, Silica, Transient Effects 142 (1992) 189
Superconductors, Crystallization 146 (1992) 240
Theory 145 (1992) 136
Theory, Modelling, Electronic Structure, Defects 149 (1992) 1
Theory, Two-Level system, Acoustic Properties 146 (1992) 90
Time-of-Flight, Silicon, Defects 141 (1992) 162

Thin Films
Alloys, Glasses Containing Transition Metal Ions, Magnetic Properties 143 (1992) 153
Annealing Effects, Silica 147&148 (1992) 437
Chalcogenides, Electron Microscopy, Structure 144 (1992) 253
Chalcogenides, EXAFS, Structure 144 (1992) 63
Chalcogenides, Thermal Properties, Modelling 144 (1992) 247
Chemical Durability, Coatings, Zirconia 147&148 (1992) 813
Deposition Techniques, Microstructure, Optical Properties 150 (1992) 148
Electronic Structure, Modelling 141 (1992) 216
Electron Microscopy, Fractals, Ion Irradiation 150 (1992) 332
Fermi Level, Thin Films, First Sharp Diffraction Peak 147&148 (1992) 799
Magnetic Properties, Sputtering, X-ray Diffraction 150 (1992) 21
Nitridation, Silicon Nitride, Hydrogen Effects 146 (1992) 190
Optical Fibers, Coatings 147&148 (1992) 404
Porosity, Ellipsometry, Sol–Gel Processes 147&148 (1992) 424
Raman Spectra, Titania, Silica 147&148 (1992) 123
Silica, Sol–Gel Processes 147&148 (1992) 488
Silicates, Hydrogen Effects, XANES, EXAFS 142 (1992) 113
Silicon, Electronic Structure, Electrical Properties 149 (1992) 264
Silicon, Photoinduced Effects, Theory 146 (1992) 175
Silicon Nitride, Infra-red Absorption, Electronic Structure, Refractive Index 144 (1992) 261
Sol–Gel Processes, Oxides, Infra-red Absorption 144 (1992) 53
Sol–Gel Processes, Theory 144 (1992) 305
Structure, Germanium, Hydrogenation 141 (1992) 271
Superconductors 147&148 (1992) 715
Thin Films, Fermi Level, First Sharp Diffraction Peak 147&148 (1992) 799
Zirconia, Colloids, Small Angle X-ray Scattering 147&148 (1992) 503

Time Differential Perturbed Angular Correlation
Amorphization, Multilayers, Solid State Reaction 150 (1992) 448
Metallic Glasses, Chemical Short-Range Order, XANES 150 (1992) 342

Time-of-Flight
Photoinduced Effects, Electric Properties, Silicon 141 (1992) 133
Silicon, Defects, Thermal Properties 141 (1992) 162

Tin Oxide
Drying, Sol–Gel Processes 147&148 (1992) 340

Titania
Drying, Membranes, Sol–Gel Method 147&148 (1992) 375
Raman Spectra, Thin Films, Silica 147&148 (1992) 123
Silicates, Raman Spectra 146 (1992) 213
Small Angle X-ray Scattering, Kinetics, Fractals 147&148 (1992) 92
Sol–Gel Method 145 (1992) 175
Sol–Gel Processes, Infra-red Absorption, X-ray Diffraction 147&148 (1992) 256
Sol–Gel Processes 147&148 (1992) 62

Topological Short-Range Order
Alkali Borate Glasses, Medium-Range Order, Modelling 150 (1992) 140
Amorphous Carbon, Neutron Diffraction, Tetrahedral Materials 150 (1992) 126
Expanded Liquids, Liquid Metals, X-ray Diffraction 150 (1992) 29
Liquid Metals, Pressure Effects, X-ray Diffraction 150 (1992) 25
Liquids, Melting, Theory 150 (1992) 271

Topology
Amorphous Solids, Colloids, Sol–Gel Method 147&148 (1992) 183

Transient Effects
Sol–Gel Processes, Silica, Thermal Properties 142 (1992) 189
Sol–Gel Processes, Silica, Thermal Properties 142 (1992) 197

Transition Metals
Alloys, Mechanical Amorphization, Solid State Reaction 150 (1992) 456
Alloys, Mechanical Amorphization, Solid State Reaction 150 (1992) 464
Chemical Short-Range Order, Metallic Glasses, Structural Relaxation 150 (1992) 419
Composites, Natural Glasses, Solid State Reaction 150 (1992) 468
Electronic Structure, Metallic Glasses, Theory 150 (1992) 307
EXAFS, Intermetallic Compounds, Mechanical Amorphization 150 (1992) 491
Liquid Metals, Pseudopotential Approach, Structure 150 (1992) 314

Transport Properties – Devices
Sol–Gel Processes, Superconductors, Magnetic Properties 147&148 (1992) 704

Transport Properties – Gel
Aerogels, Diffusion 145 (1992) 180
Sol–Gel Processes, Elastic Properties, Liquids, Transport Properties – Liquids 142 (1992) 18

Transport Properties – Liquids
Small Angle X-ray Scattering, Drying Control Additive, Kinetics 147&148 (1992) 238
Sol–Gel Processes, Elastic Properties, Liquids, Transport Properties – Gel 142 (1992) 18

Transport Properties – Solids
Photoinduced Effects, Mobility, Silicon 141 (1992) 106

Tungstates
Sol–Gel Processes, Photochromism 147&148 (1992) 313

Two-Level system
Glass Formation, Structure, Thermal Properties 150 (1992) 179
Theory, Acoustic Properties, Thermal Properties 146 (1992) 90

Ultraviolet Absorption
Catalysis, Infra-red Absorption, X-ray Diffraction 147&148 (1992) 773
Catalysis, Infra-red Absorption 147&148 (1992) 778
Luminescence, Alumina, Nuclear Magnetic Resonance 147&148 (1992) 614

Viscosity
Alloys, Modelling, Glass Transition 143 (1992) 140
Colloids, Oxides 147&148 (1992) 67
Fibers, Oxides, Glass Fibers 144 (1992) 107
Growth Kinetics, Nuclear Magnetic Resonance, Sol–Gel Processes 147&148 (1992) 686
Mechanical Properties 147&148 (1992) 681
Sol–Gel Method, Modelling 145 (1992) 20
Sol–Gel Precursors, Alumina, Stress Measurement 147&148 (1992) 690
Sol–Gel Processes, Small Angle X-ray Scattering 144 (1992) 277
Sol–Gel Processes 147&148 (1992) 85
Sol–Gel Processes 147&148 (1992) 695

Water in Glass
Aerogels 145 (1992) 85
Surface Properties, Silicates, Infra-red Absorption 147&148 (1992) 115
X-ray Diffraction, Raman Spectra, Structure 142 (1992) 234

XANES
EXAFS, Sol–Gel Method, Alumina 147&148 (1992) 135
Metallic Glasses, Chemical Short-Range Order, Time Differential Perturbed Angular Correlation 150 (1992) 342
Thin Films, Silicates, Hydrogen Effects, EXAFS 142 (1992) 113

XPS
Catalysis, Alumina 147&148 (1992) 764

X-ray Diffraction
Alkali Borate Glasses, Oxide Melts, Short-Range Order 150 (1992) 87
Alkali Silicate Glasses, Computer Simulation, Neutron Time of Flight Diffraction 150 (1992) 92
Amorphization, Sputtering, Short-Range Order 150 (1992) 391

Annealing Effects, Alkali Borate Glasses, Short-Range Order 150 (1992) 76
Catalysis, Infra-red Absorption, Ultraviolet Absorption 147&148 (1992) 773
Chalcogenides, Small Angle Neutron Scattering, Structure 142 (1992) 63
Crystallization, Small Angle X-ray Scattering, Sol–Gel Precursors 147&148 (1992) 152
Densification, Silicates, Sol–Gel Processes 147&148 (1992) 532
Electron Diffraction, Quasicrystals, Structure 150 (1992) 327
EXAFS, Mechanical Amorphization, Scanning Electron Microscopy 150 (1992) 487
Expanded Liquids, Liquid Metals, Topological Short-Range Order 150 (1992) 29
Expanded Liquids, Molten Salts, Short-Range Order 150 (1992) 40
Glass Formation, Oxides, Crystallization 150 (1992) 107
Hydrogenation, Mechanical Amorphization, Solid State Reaction 150 (1992) 452
Liquid Metals, Pressure Effects, Topological Short-Range Order 150 (1992) 25
Liquid Semiconductors, Monte Carlo Simulations, Short-Range Order 150 (1992) 35
Magnetic Properties, Sputtering, Thin Films 150 (1992) 21
Mechanical Amorphization, Natural Glasses, Solid State Reaction 150 (1992) 478
Mechanical Amorphization, Neutron Diffraction, Natural Glasses 150 (1992) 1
Modelling, Structure, Silicon Dioxide 150 (1992) 65
Oxides, Molecular Dynamics, Liquids 143 (1992) 201
Phosphates, Sol–Gel Processes, Differential Scanning Calorimetry 147&148 (1992) 537
Quasicrystals, Structure, Stability 150 (1992) 322
Silica, Solutions, Nuclear Magnetic Resonance 147&148 (1992) 194
Silicon Alloys, Short-Range Order, Structure 142 (1992) 70
Sol–Gel Processes, Impurity Conduction 147&148 (1992) 36
Sol–Gel Processes, Nuclear Magnetic Resonance, Electron Microscopy 144 (1992) 298
Sol–Gel Processes, Titania, Infra-red Absorption 147&148 (1992) 256
Structure, Oxides, Modelling 143 (1992) 191
Water in Glass, Raman Spectra, Structure 142 (1992) 234

X-ray Sensor
Microstructure, Modelling 147&148 (1992) 176

Zirconia
Chemical Durability, Coatings, Thin Films 147&148 (1992) 813
Clusters, Alumina 147&148 (1992) 744
Colloids, Small Angle X-ray Scattering, Thin Films 147&148 (1992) 503
Crystallization, Drying, Glass Ceramics 147&148 (1992) 335
Porosity, Sol–Gel Processes 147&148 (1992) 389
Small Angle X-ray Scattering, Sol–Gel Method, Catalysis 147&148 (1992) 41
Small Angle X-ray Scattering, Sol–Gel Method 147&148 (1992) 127
Sol–Gel Method, Sintering, Phase Transition 147&148 (1992) 201
Sol–Gel Processes, Small Angle X-ray Scattering 147&148 (1992) 542

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High Energy and High Dose Ion Implantation

Proceedings of Symposia C on High Energy Ion Implantation and Symposium D on Ion Beam Synthesis of Compound and Element Layers of the 1991 E-MRS Spring Conference, Strasbourg, France, 28-31 May 1991

edited by **S.U. Campisano, J. Gyulai, P.L.F. Hemment** *and* **J.A. Kilner**

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European Materials Research Society Symposia Proceedings Volume 23

Ion beam processing is a means of producing both novel materials and structures. The contributions in this volume strongly focus on this aspect and include many papers reporting on the modification of the electrical and structural properties of the target materials, both metals and semiconductors, as well as the synthesis of buried and surface compound layers. Many examples on the applications of high energy and high dose ion implantation are also given. All of the papers from both Symposia C and D are presented in this single volume because the interests of many of the participants span both topics. Additionally many of the materials science aspects, including experimental methods, equipment and processing problems, diagnostic and analytical techniques are common to both symposia.

Abbreviated contents:
Parts: I. Joint Session of Symposia C and D. Sections: 1. Damage and second phase formation. Damage created in silicon by 1 MeV O^+ ions as a function of beam power *(A. Grob et al.)*. **II. Symposium C on High Energy Ion Implantation.** 2. Profiles and redistribution. High energy P implants in silicon *(V. Raineri et al.)*. The effect of high energy boron co- implantation on the activation of silicon implants in GaAs *(R.J. Wilson et al.)*. 3. Damage studies. Dynamics of lattice damage accumulation for MeV ions in silicon *(A. Golanski et al.)*. Stability of vacancies in silicon irradiated by xenon ions at 77K *(P. Bogdanski et al.)*. 4. Characterization. Deep-level transient spectroscopy studies of U-irradiated silicon *(P. Mary et al.)*. Ion implantation measurements with a noncontact nondestructive high frequency photoacoustic technique *(Z.Q. Wang et al.)*. 5. Applications to semiconductors and optics. Helium ion implanted waveguide lasers *(P.D. Townsend)*. Progress report on Aramis, the 2 MV tandem at Orsay *(H. Bernas et al.)*. 6. Equipment. The HVEE tandetron line: new developments and design considerations *(D.J.W. Mous et al.)*. **III. Symposium D on Ion Beam Synthesis of Compound and Elemental Layers.** 7. Damage and second phase formation ion beam synthesis of compound and elemental layers. Defects in SIMOX structures: some process dependence *(J. Margail et al.)*. Mesotaxy by nickel diffusion into a buried amorphous silicon layer *(Y.N. Erokhin et al.)*. Point contact pseudo-metal/oxide/semiconductor transistor in as-grown silicon on insulator wafers *(S. Williams et al.)*. Study of the growth kinetics of oxidation -induced stacking faults in separation by implanted oxygen using a new chemical etching process *(D. Tsoukalas et al.)*. Author index. Subject index.

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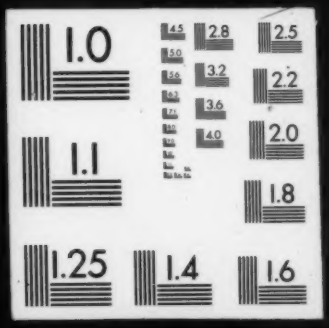
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